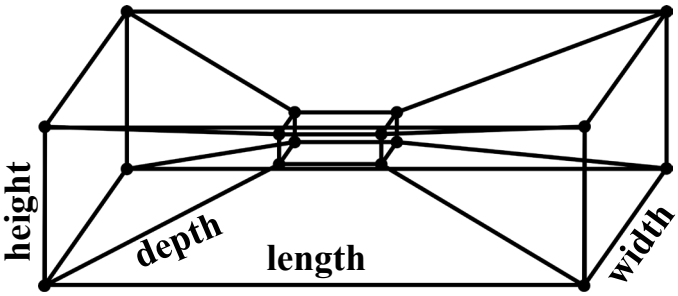
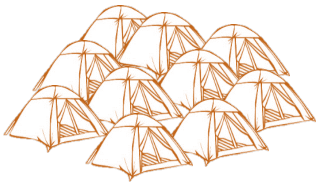
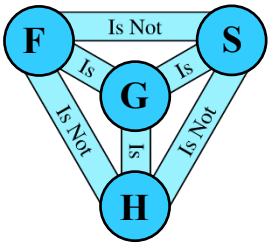
Math and the Bible 4D

Topics:

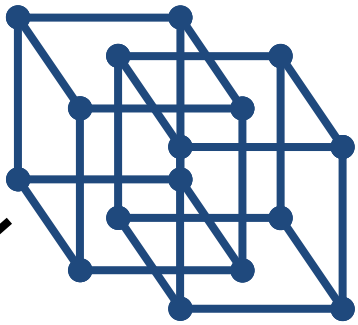
the 4th dimension & disappearing
unravelling a hypercube
cross sections of a hypersphere
flatland, the trinity, & 1+1+1=1 ?
Enoch, Elijah, Philip, Paul
Numbers, a campout, & a geometric implication
Genesis, John, π, *e*, & an amazing calculation
"theorems" of Christianity

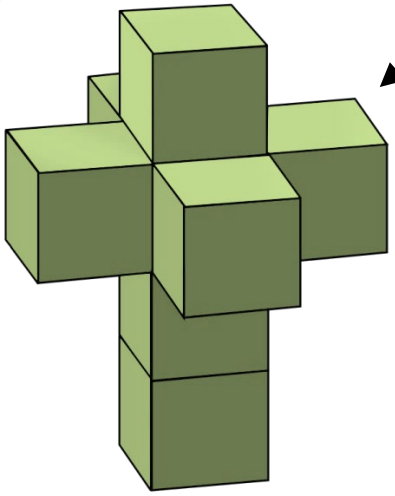


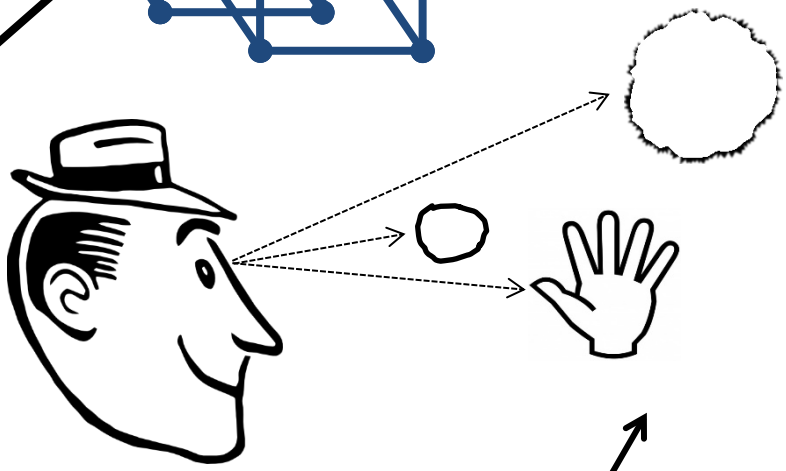


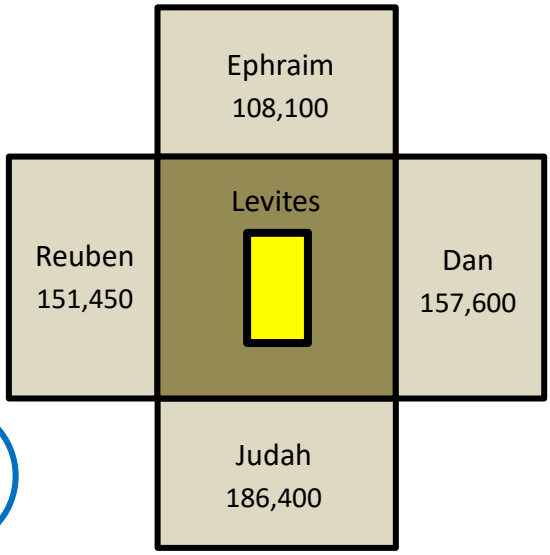


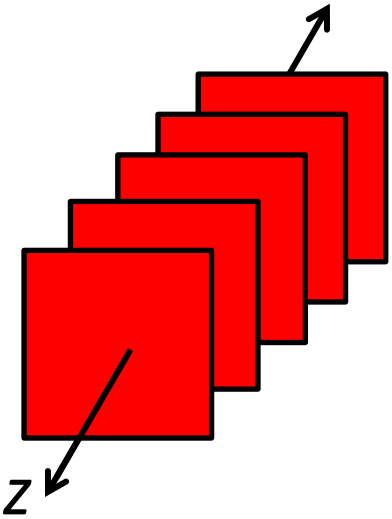
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Genesis → Hebrew → בראשית → 3.1415545×10^{17}

John → Greek → Εν αρχη → 2.7183128×10^{40}

Ma✝h & the Biblε 4D

Joe Vasta
Ph.D., Mathematics

Messianic Prophecies

descendent of Abraham, Isaac, Jacob, Judah, Jesse, David,
out of Egypt I called My Son, teacher of parables,
heal the blind, deaf, lame, dumb,
born in Bethlehem, a messenger will prepare the way,
will enter Jerusalem as a king riding on a donkey,
betrayed by a friend, betrayed for 30 pieces of silver,
betrayal money thrown down in temple & went to potter,
remain silent while afflicted, hands and feet pierced,
accused by false witnesses, struck, spit upon, mocked,
bruised, wounded, numbered with the transgressors,
forsaken by His disciples, garments parted and lots cast,
stared upon, people shook their heads, friends stood afar off,
suffered thirst, gall & vinegar offered to Him, bones not broken,
pierced, darkness over land, buried in a rich man's tomb

chance of ANY man fulfilling all eight prophecies

$$\frac{1}{10^{17}}$$

The Bible accurately predicted the week Messiah would be "cut off" hundreds of years before it happened!

Passion Week → March 30, 33 AD – April 3, 33 AD

The Trinity

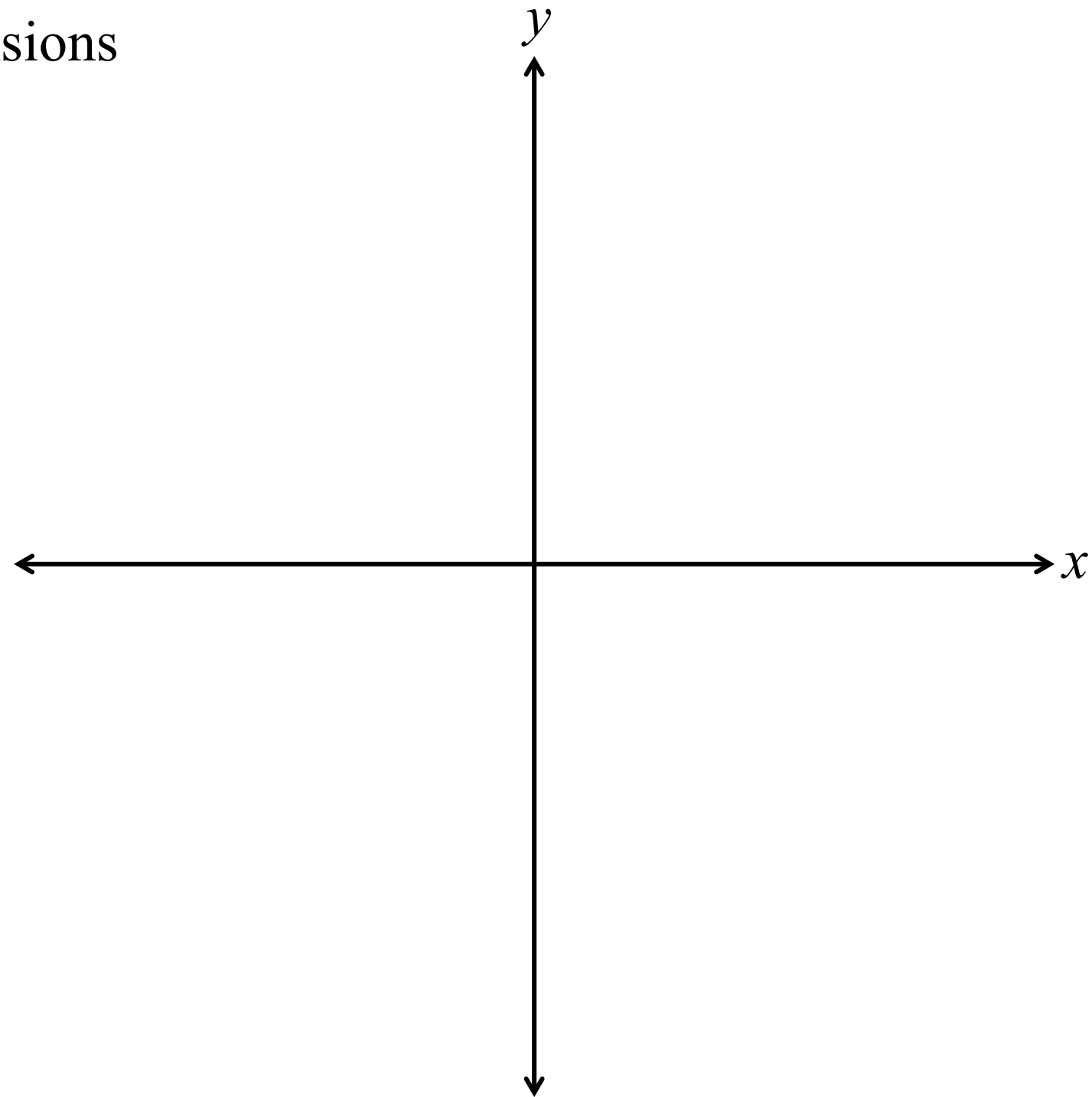
too complicated → cannot believe

How could 1 + 1 + 1 = 1?

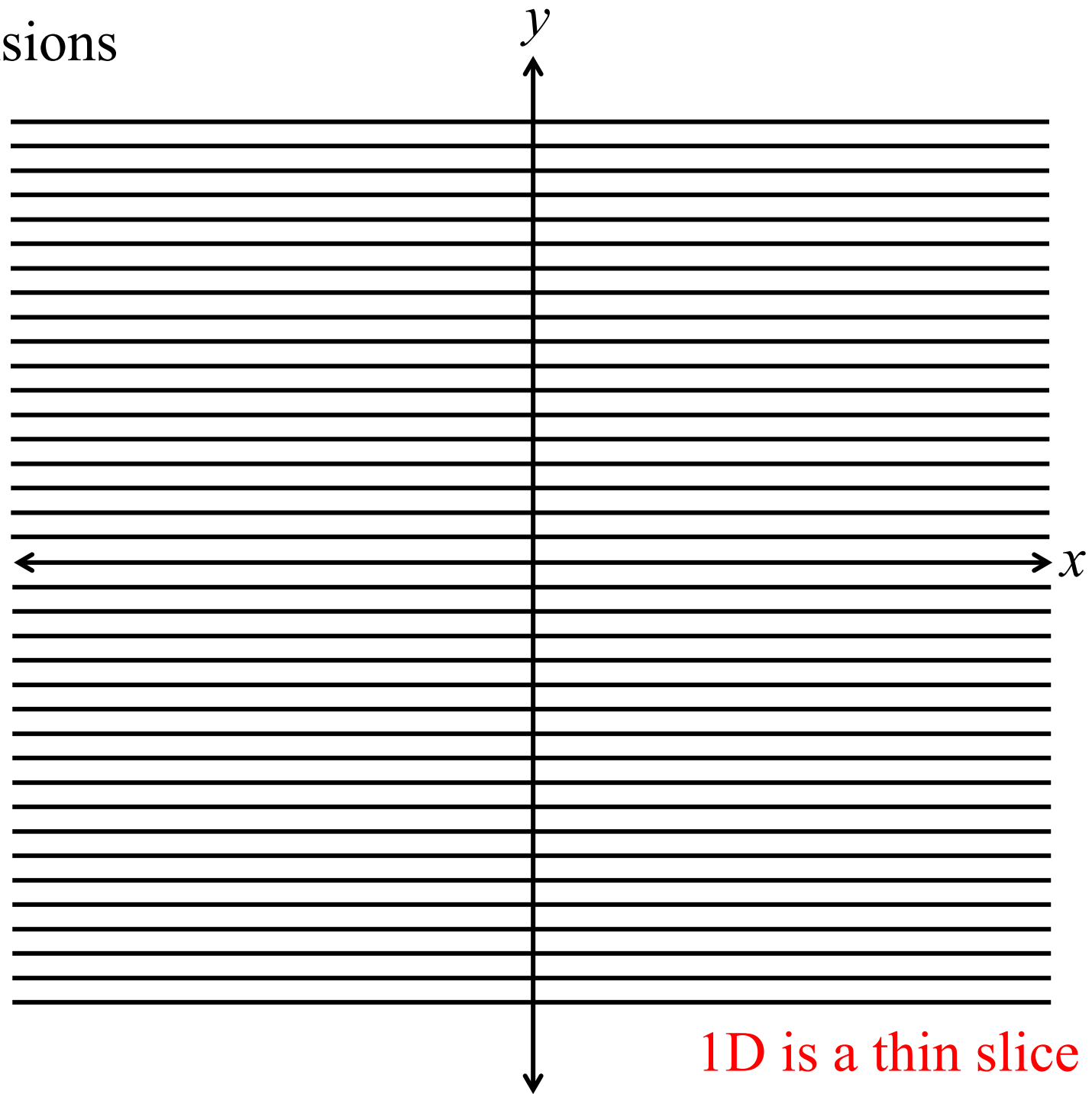
1 Dimension



2 Dimensions

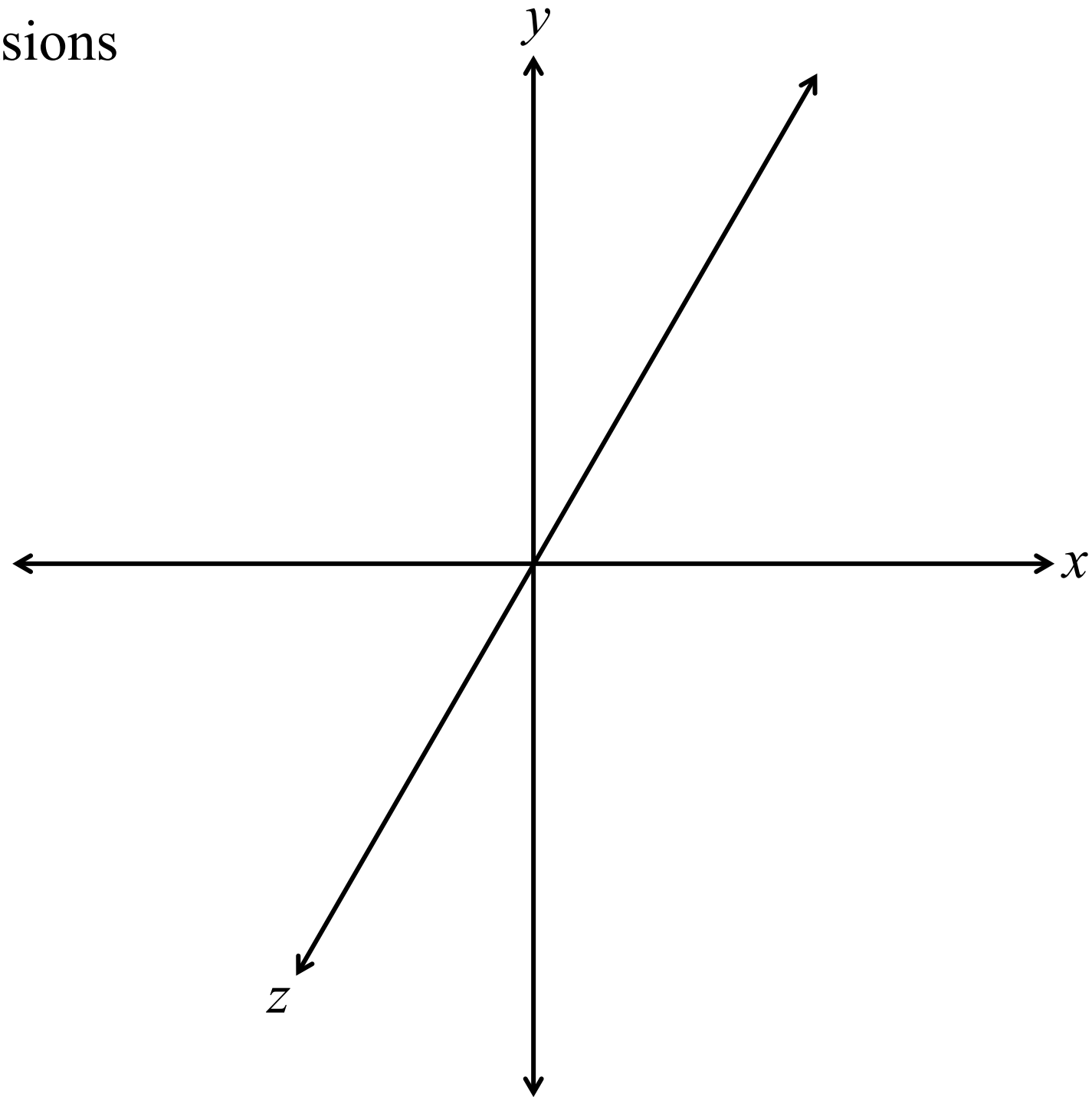


2 Dimensions

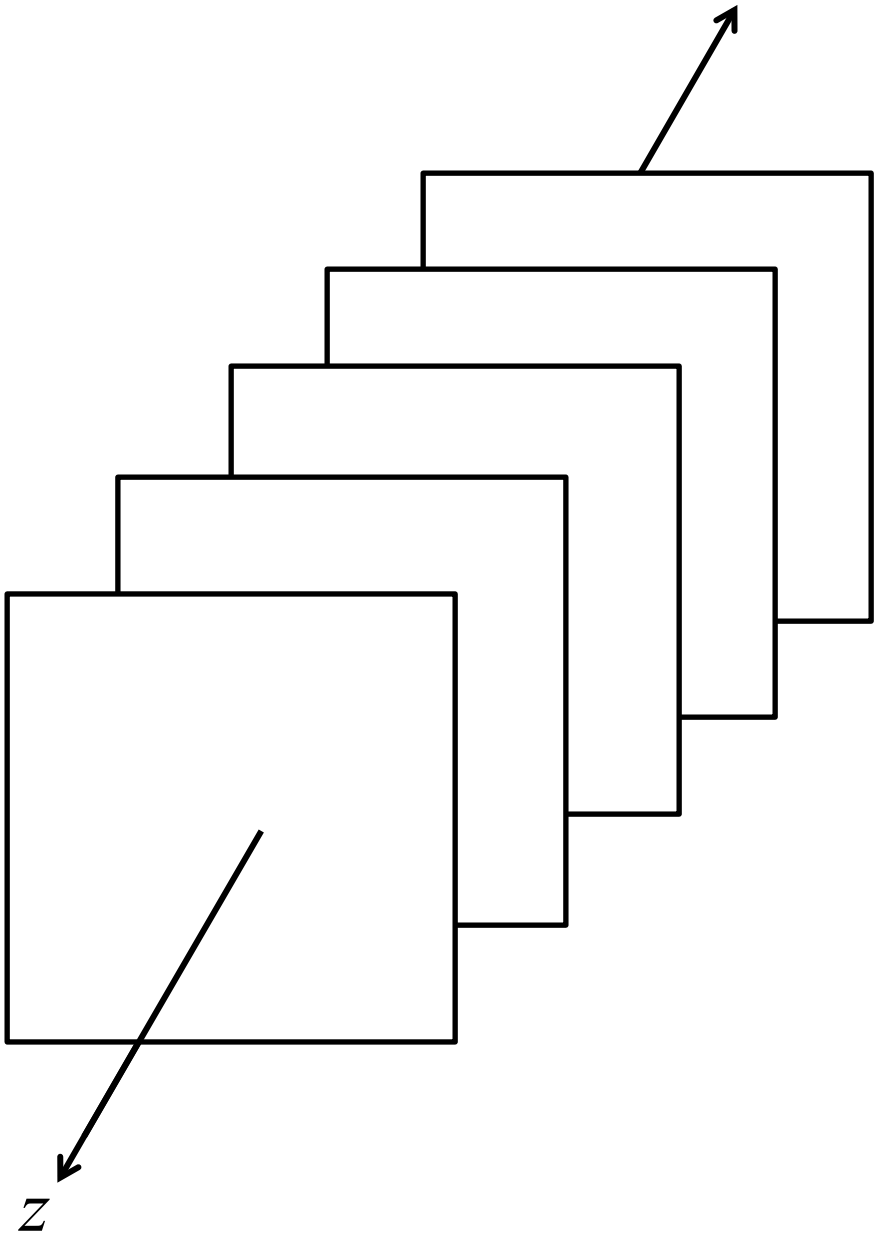


1D is a thin slice of 2D

3 Dimensions

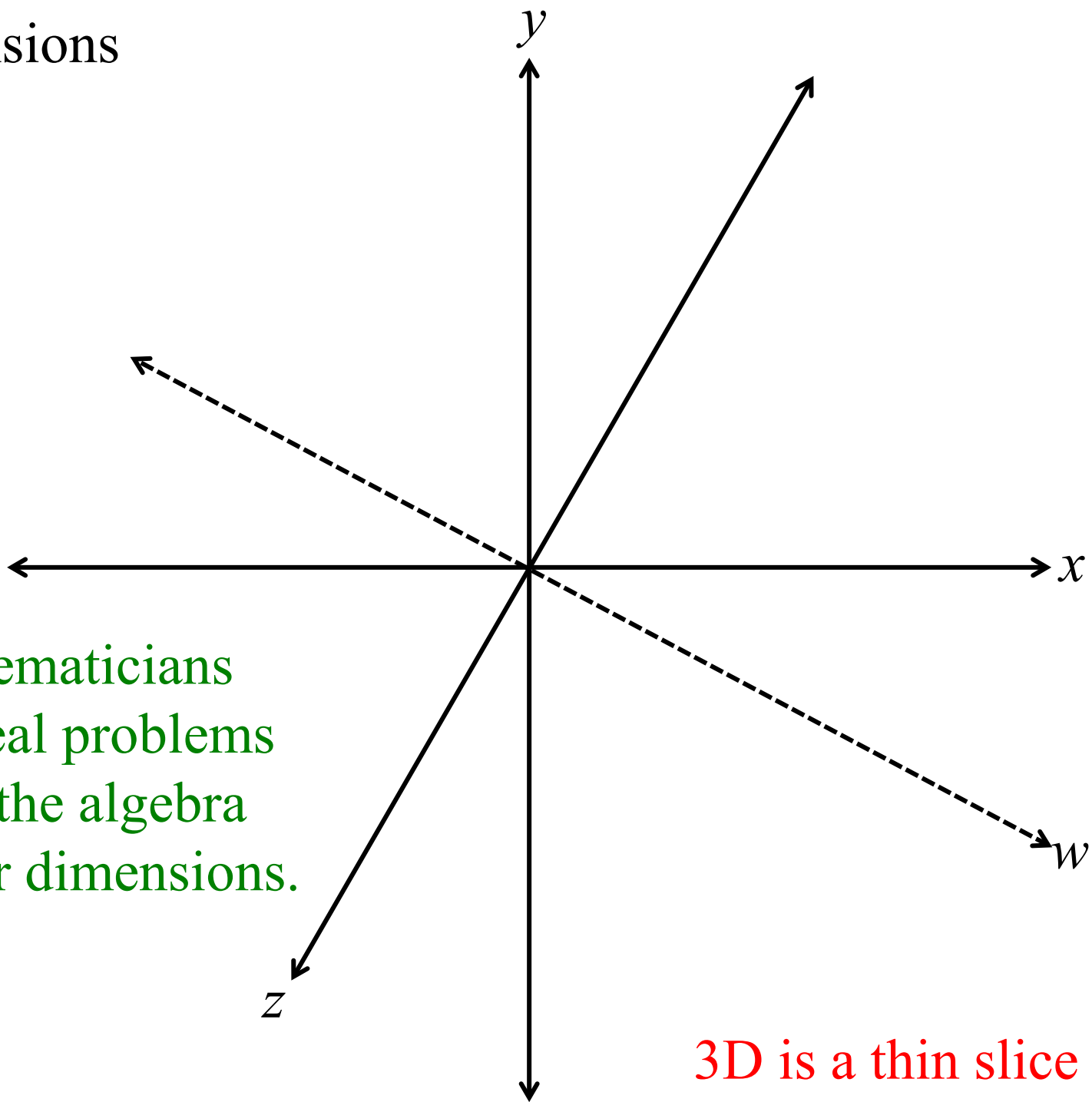


3 Dimensions



2D is a thin slice of 3D

4 Dimensions

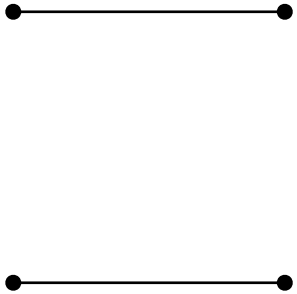


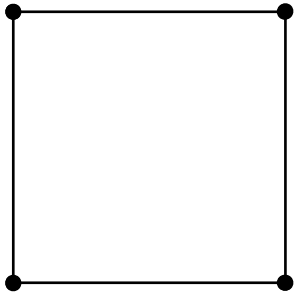
Mathematicians
solve real problems
using the algebra
of higher dimensions.

3D is a thin slice of 4D

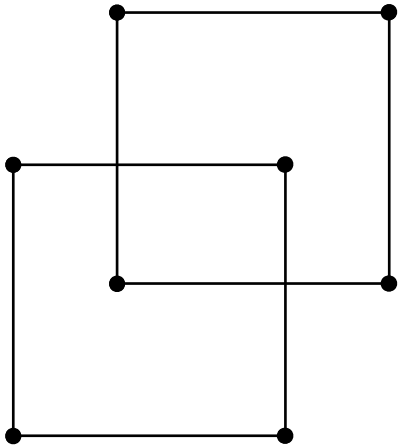


1-cube
(line segment)

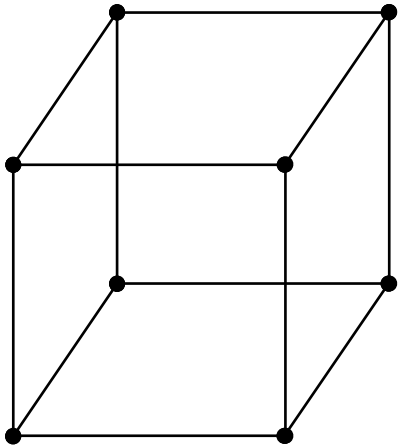




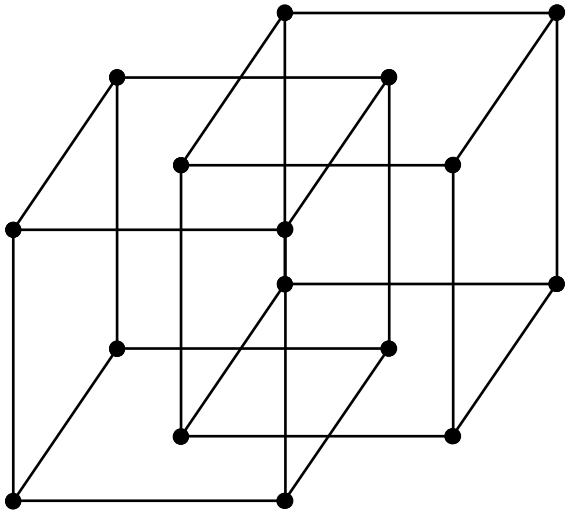
2-cube
(square)

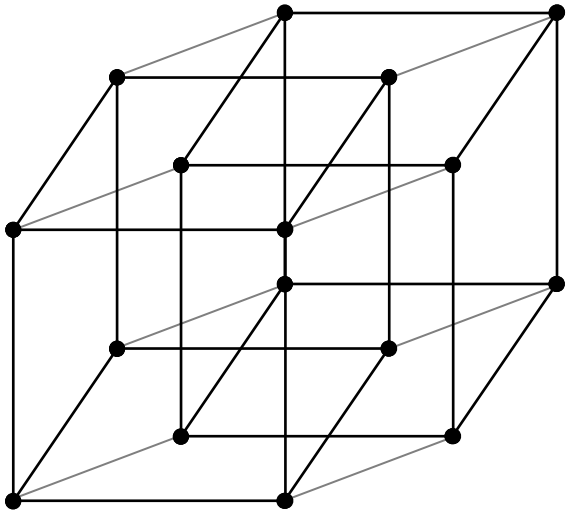


A cube
contains
6 squares.

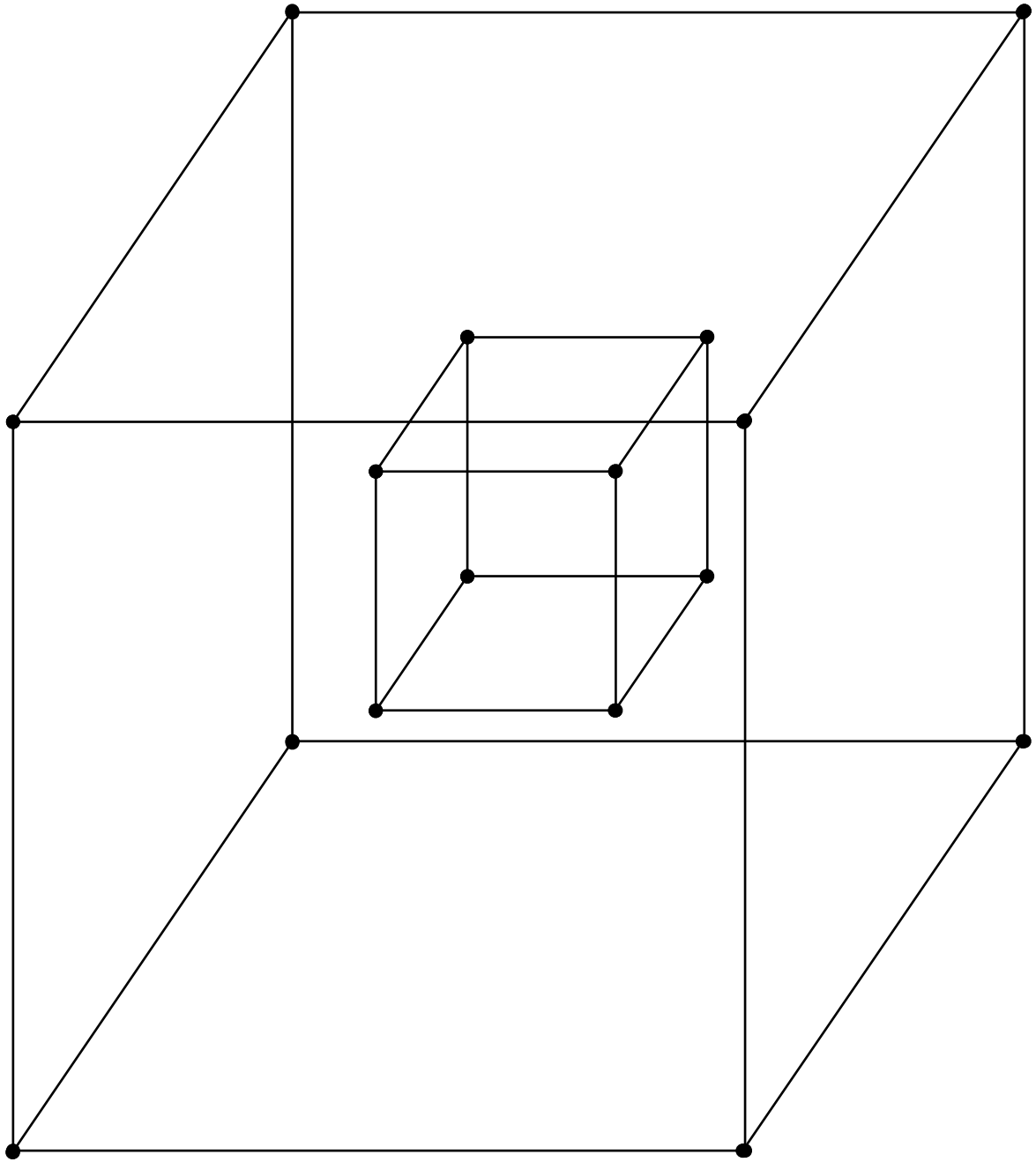


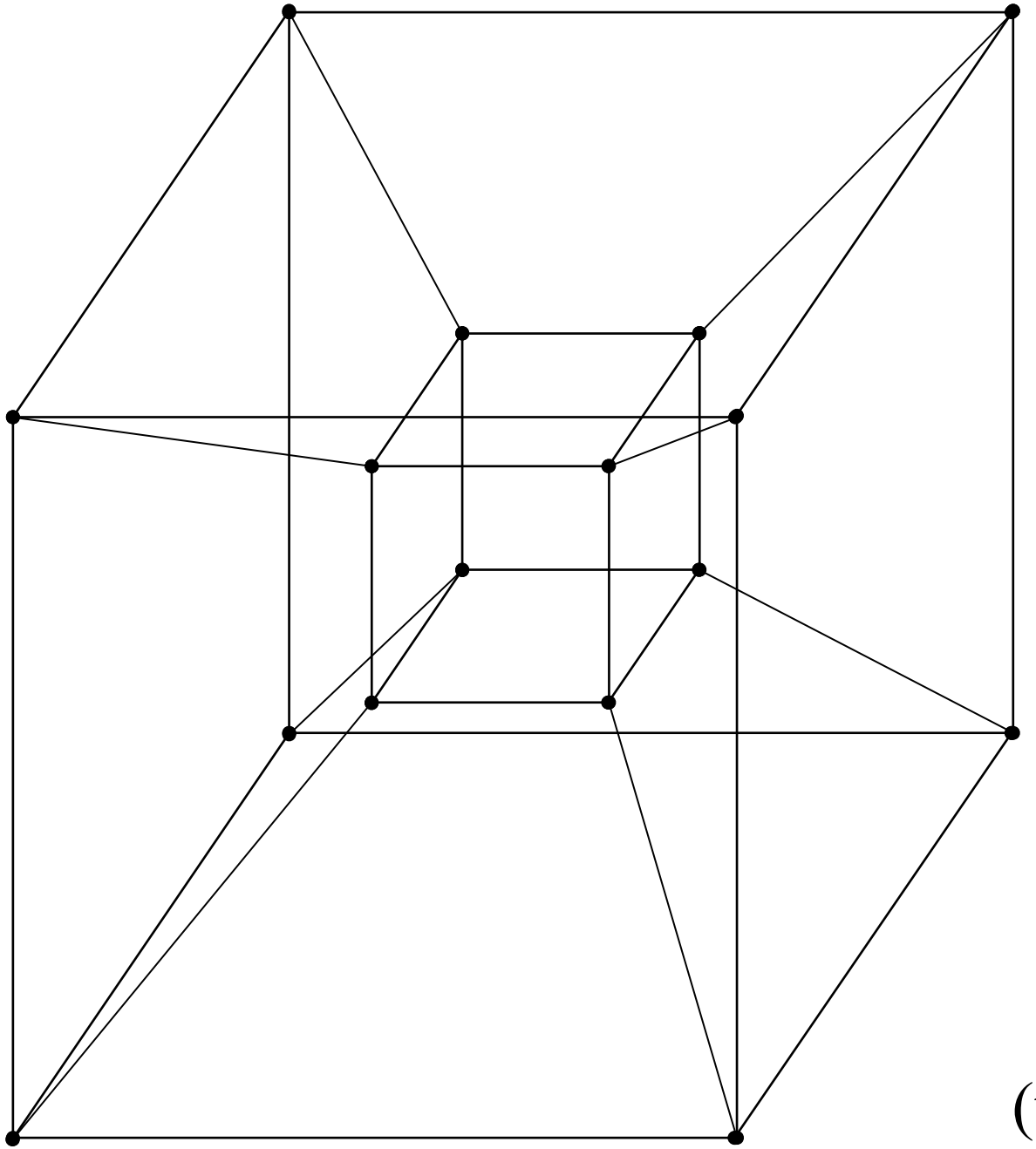
3-cube
(cube)





4-cube
(tesseract)

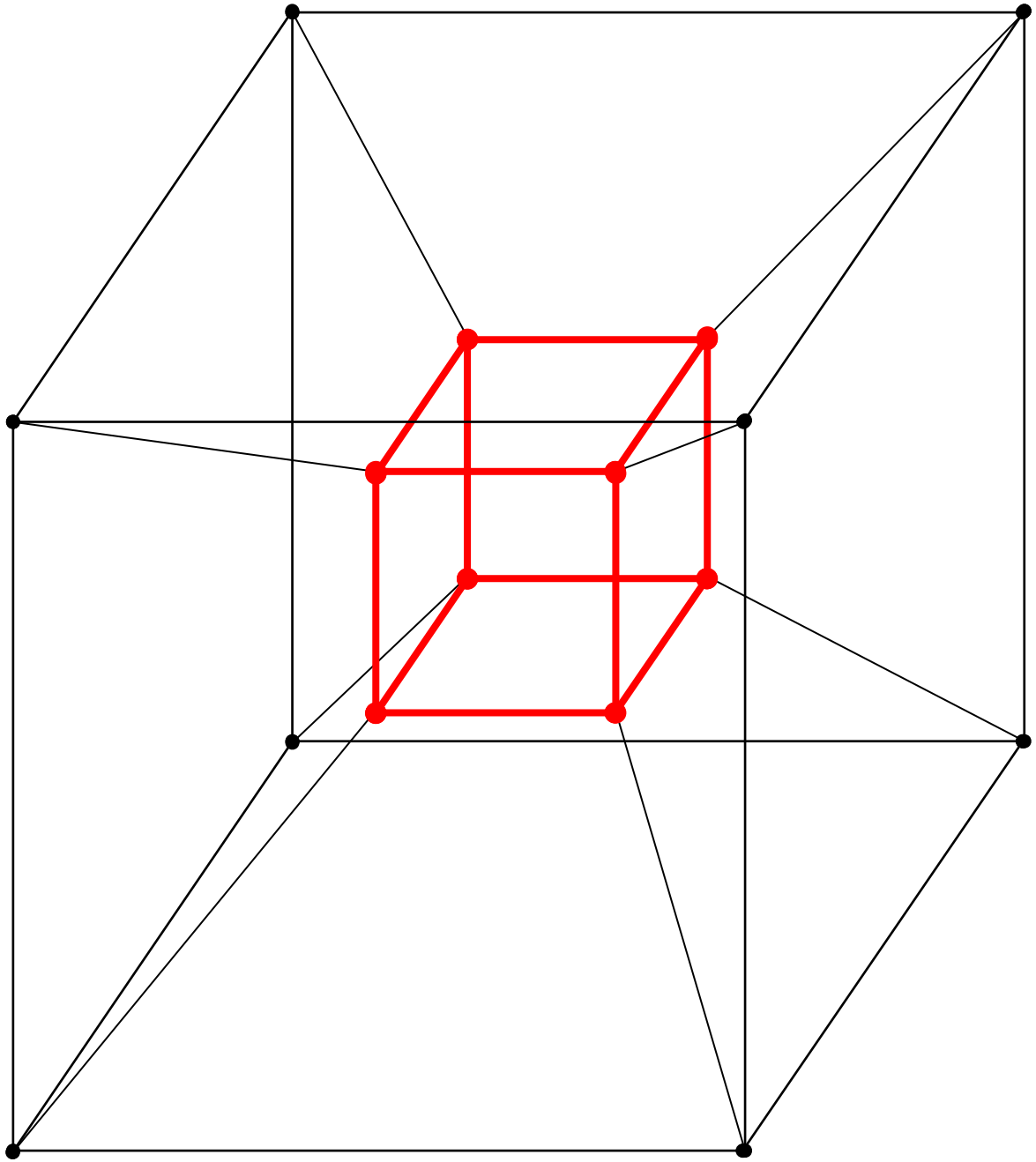




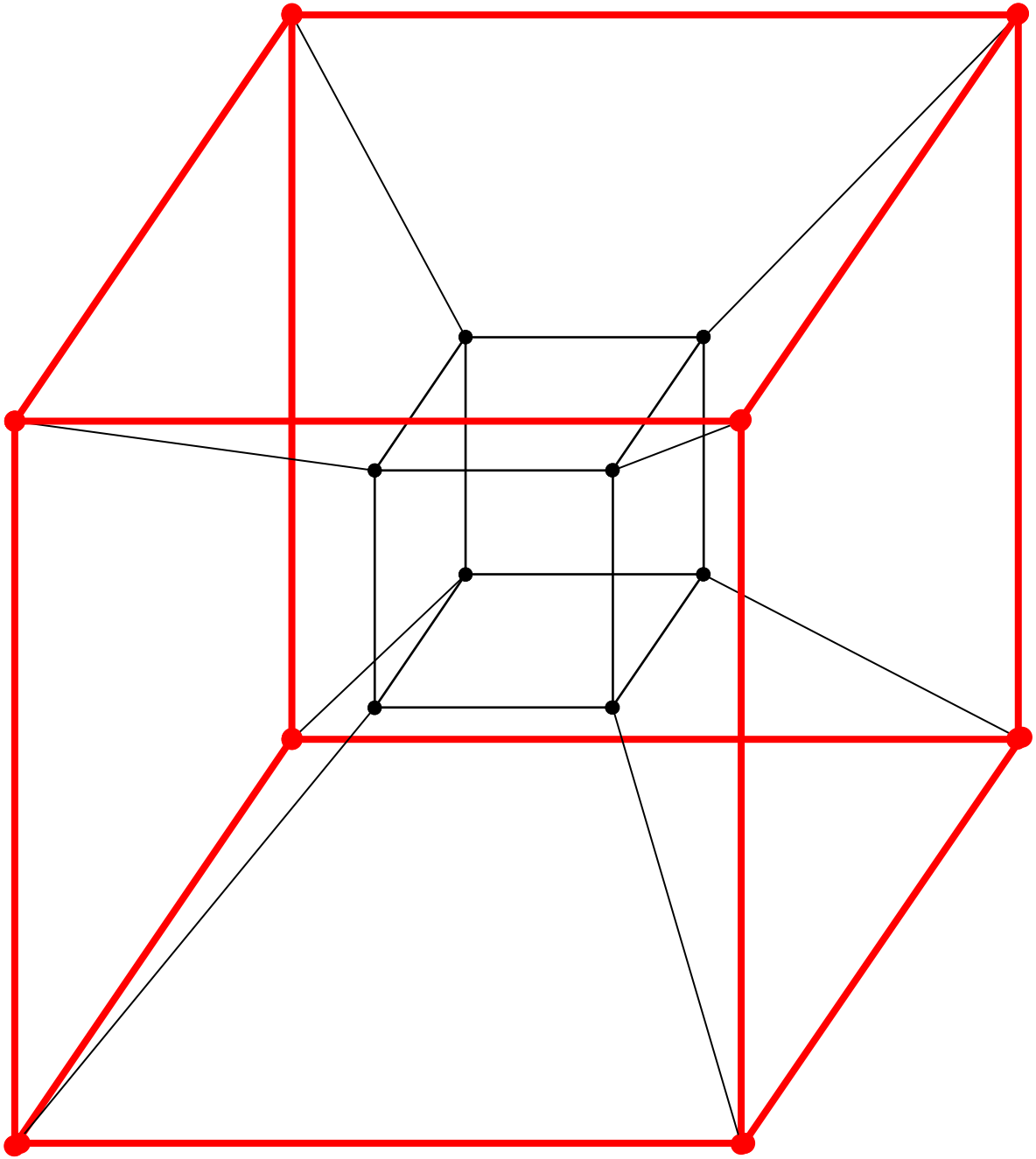
A tesseract contains 8 cubes.

4-cube (tesseract)

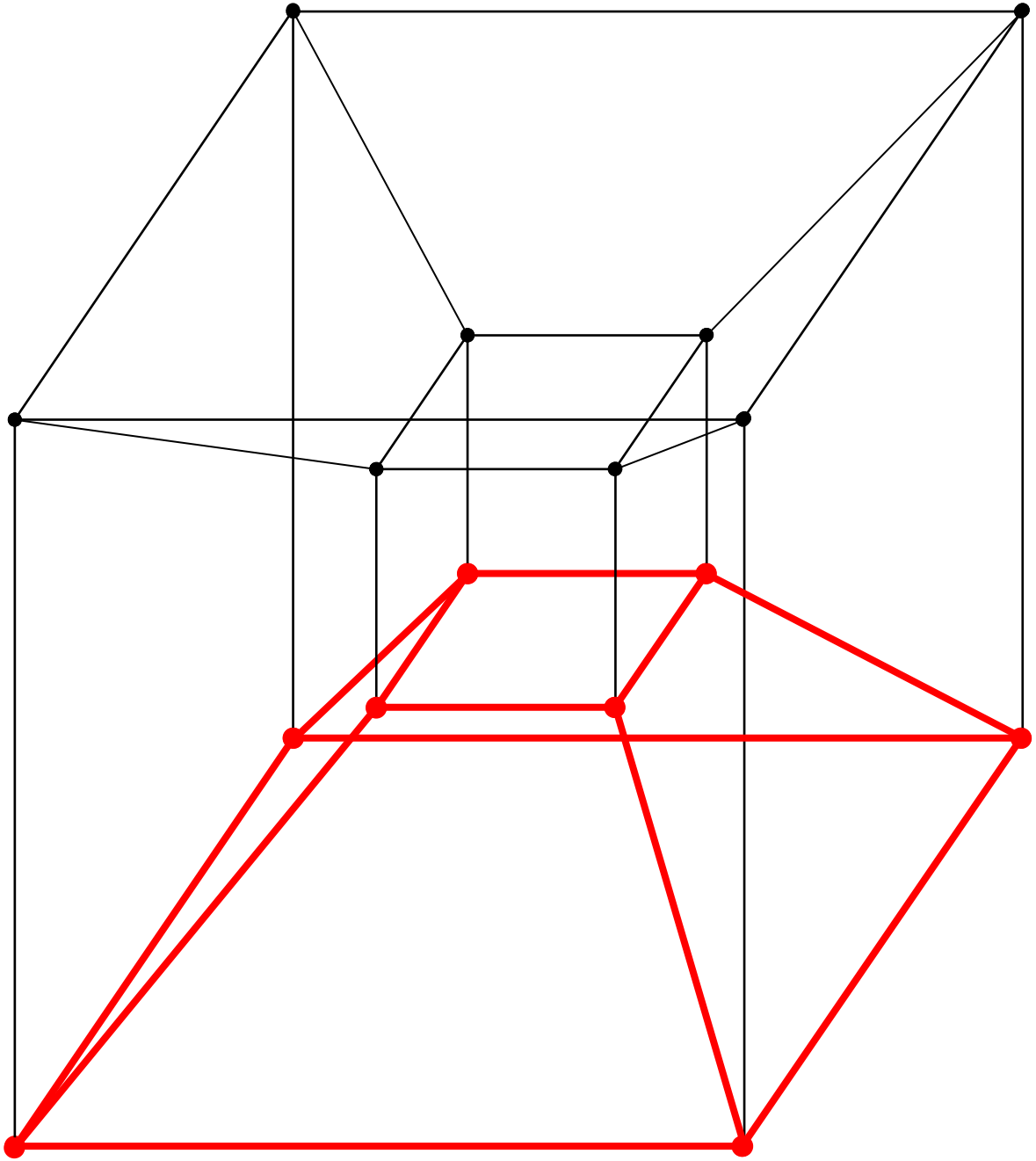
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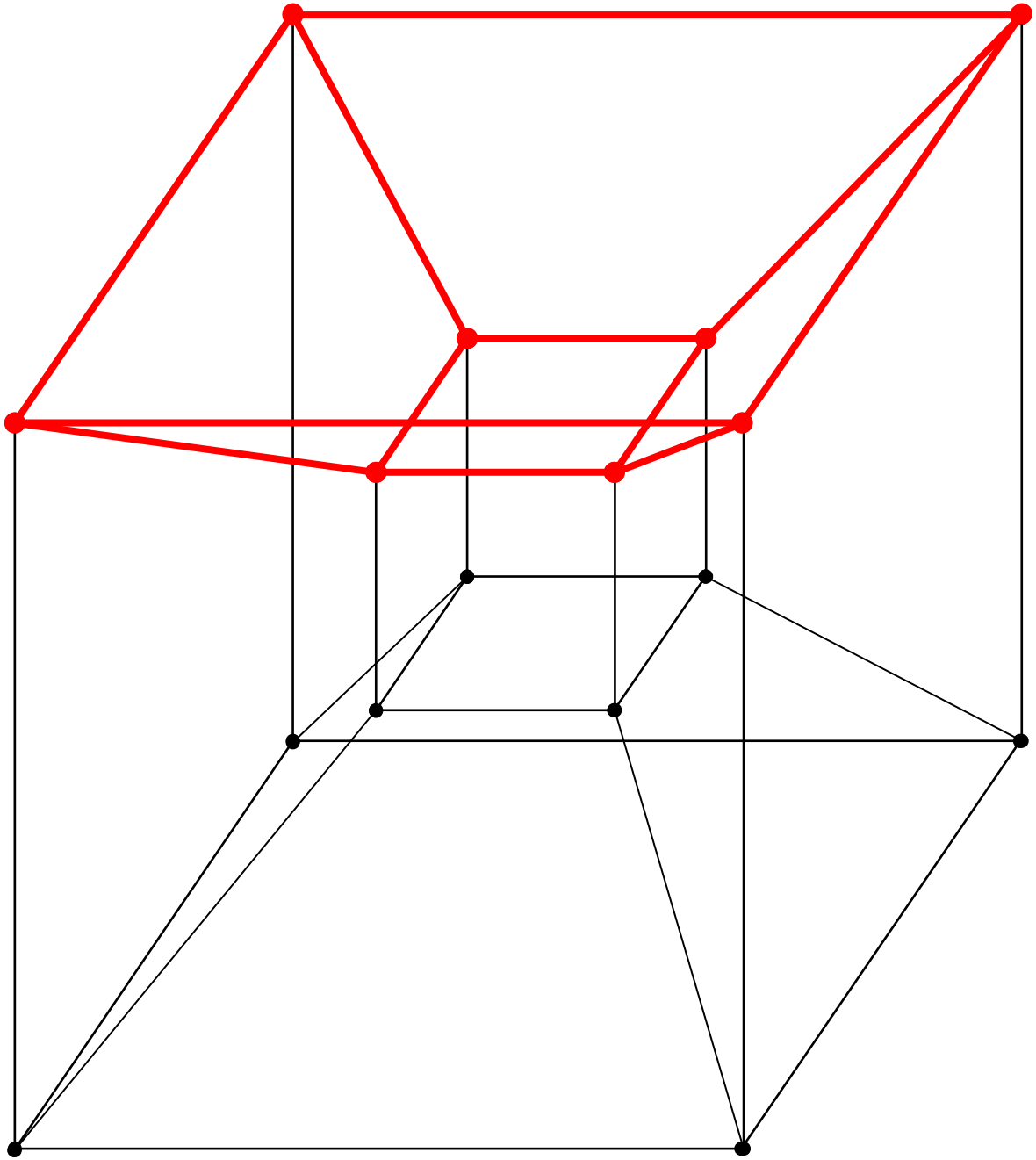
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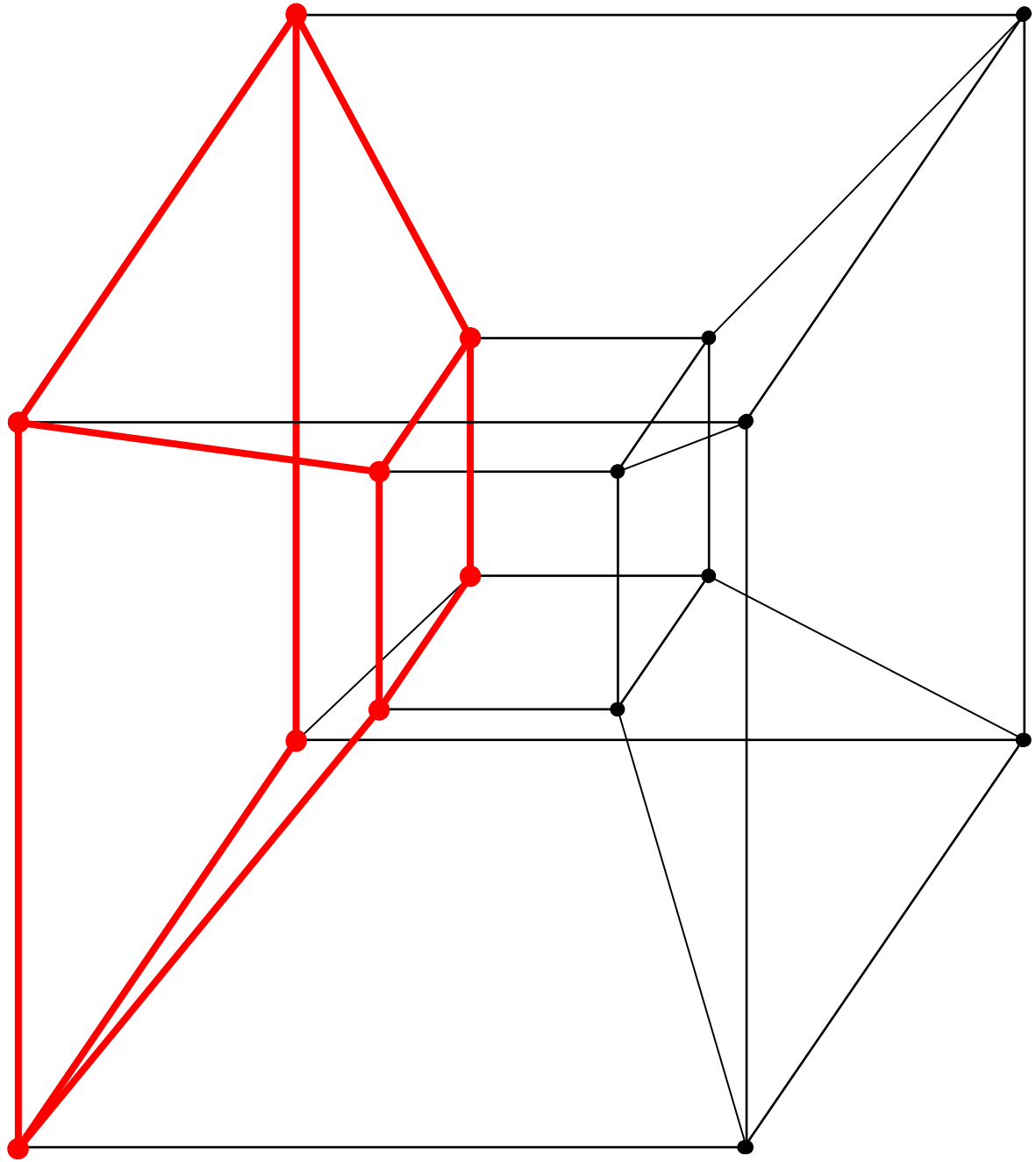
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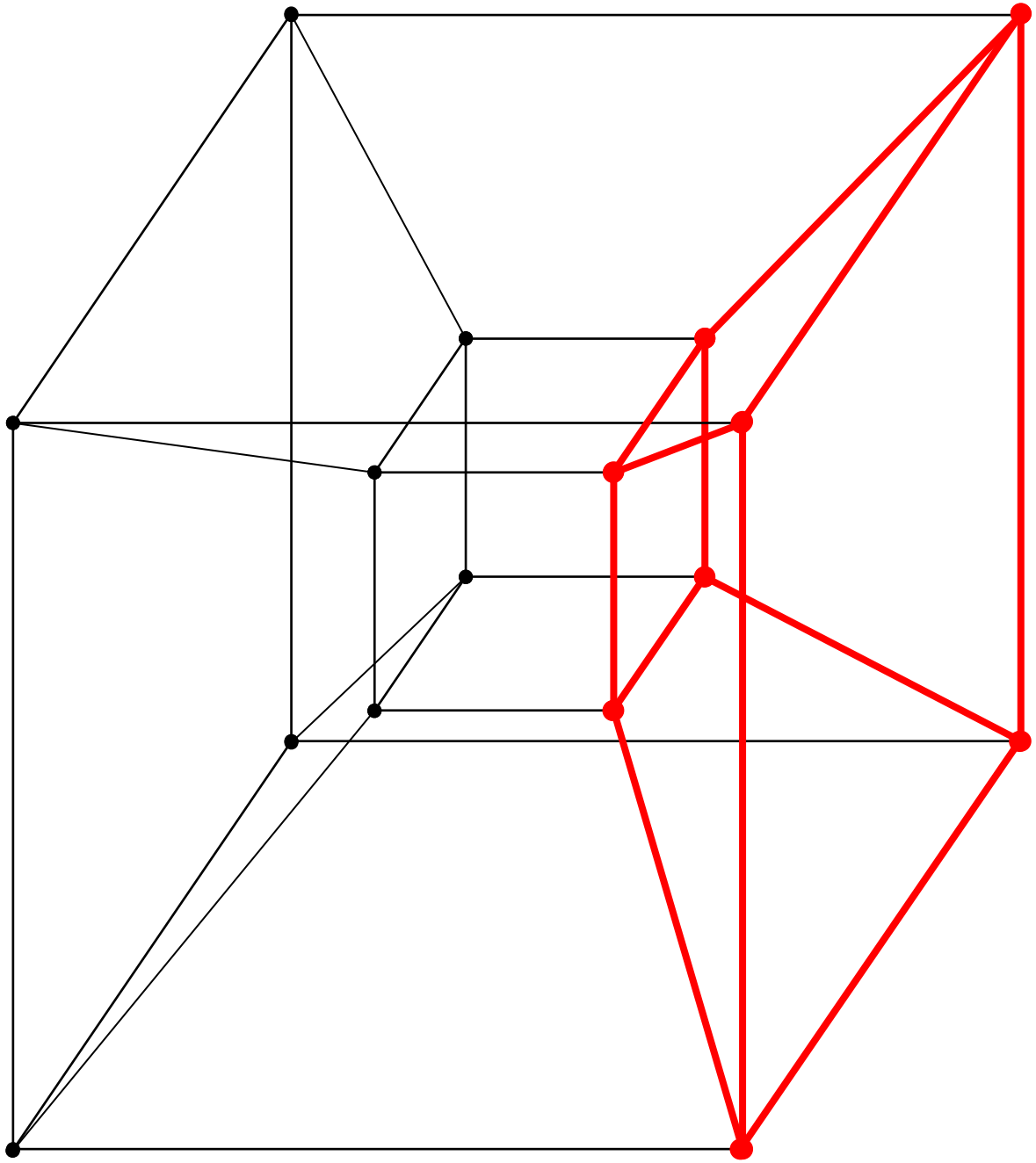
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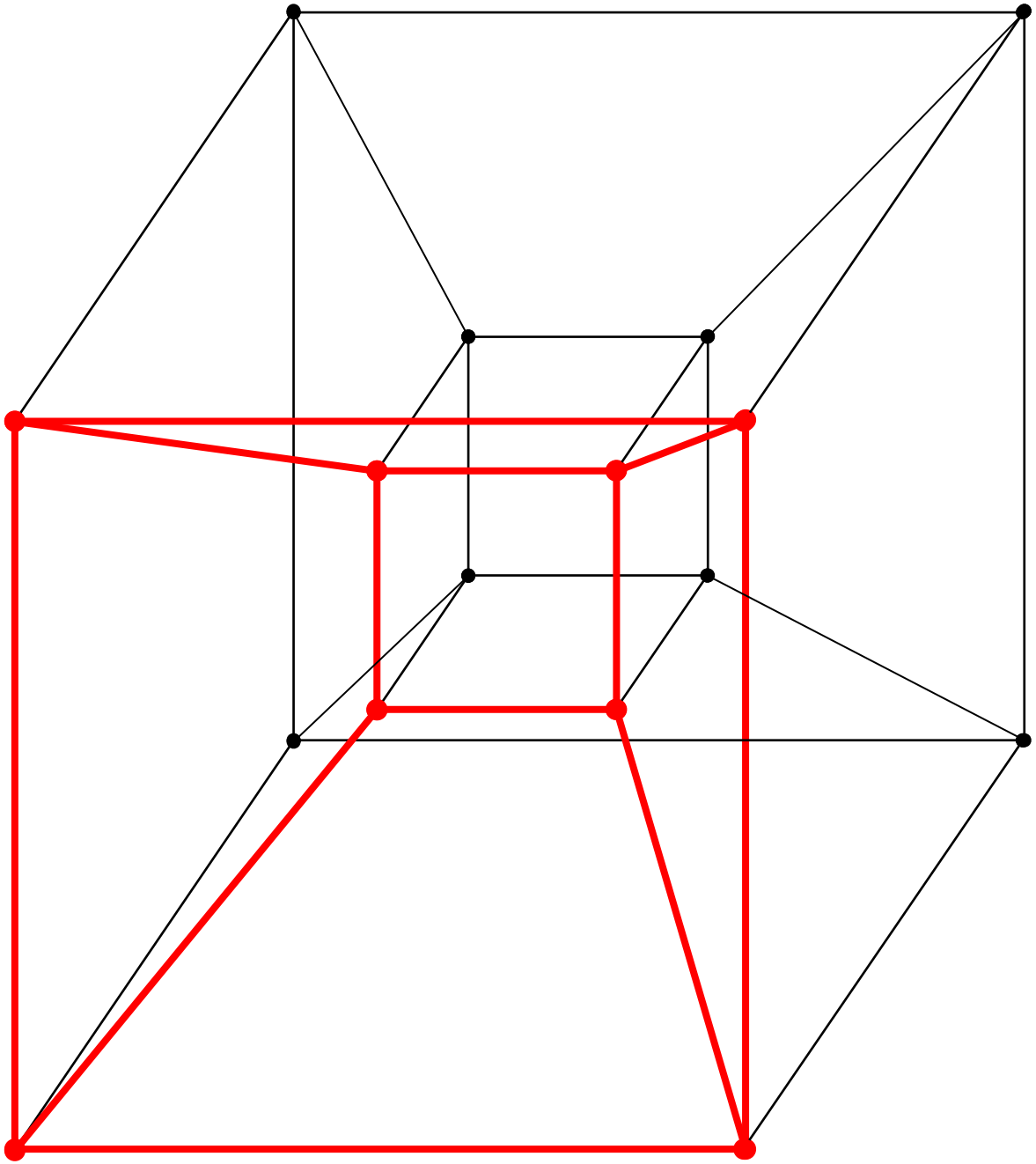
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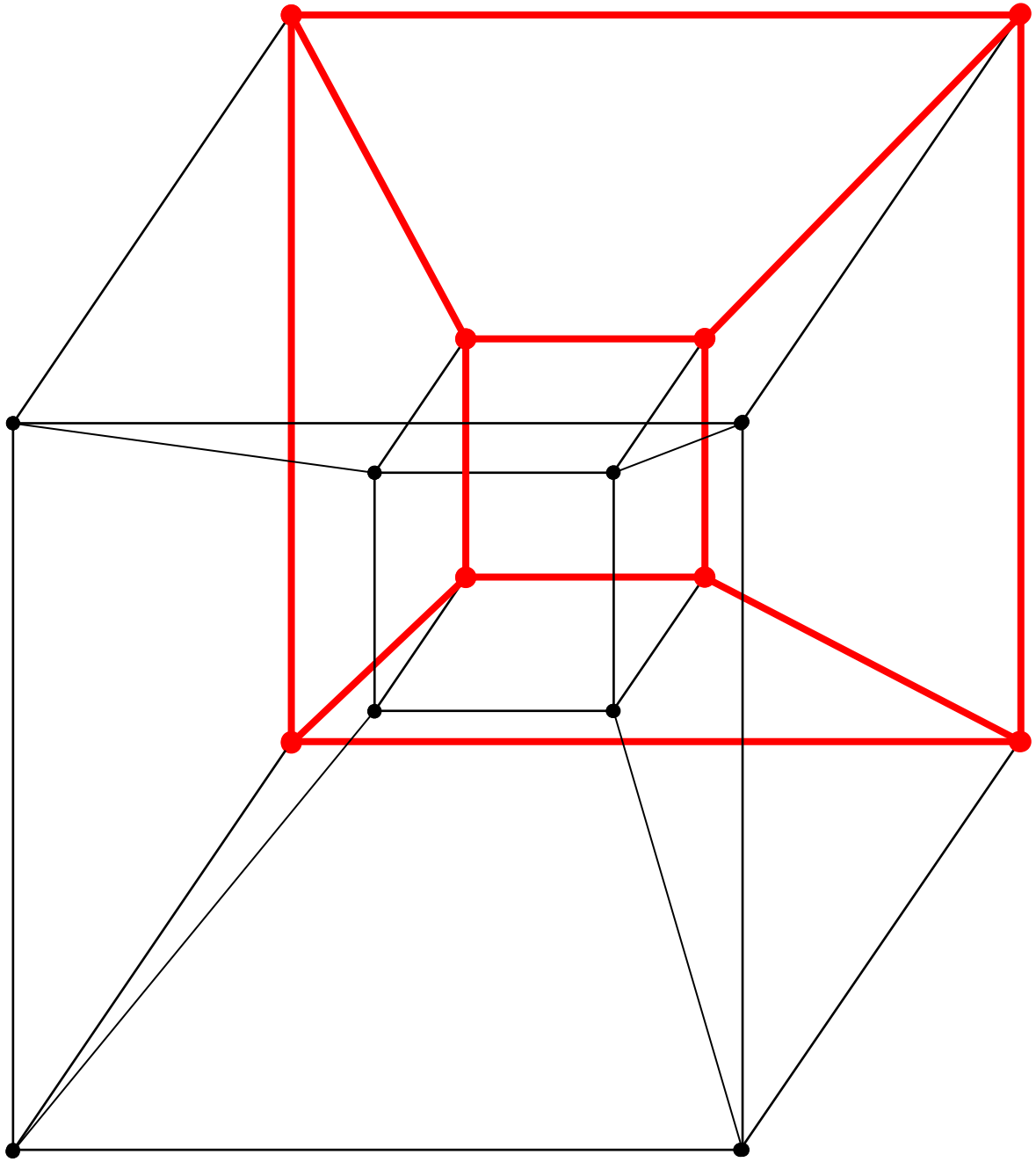
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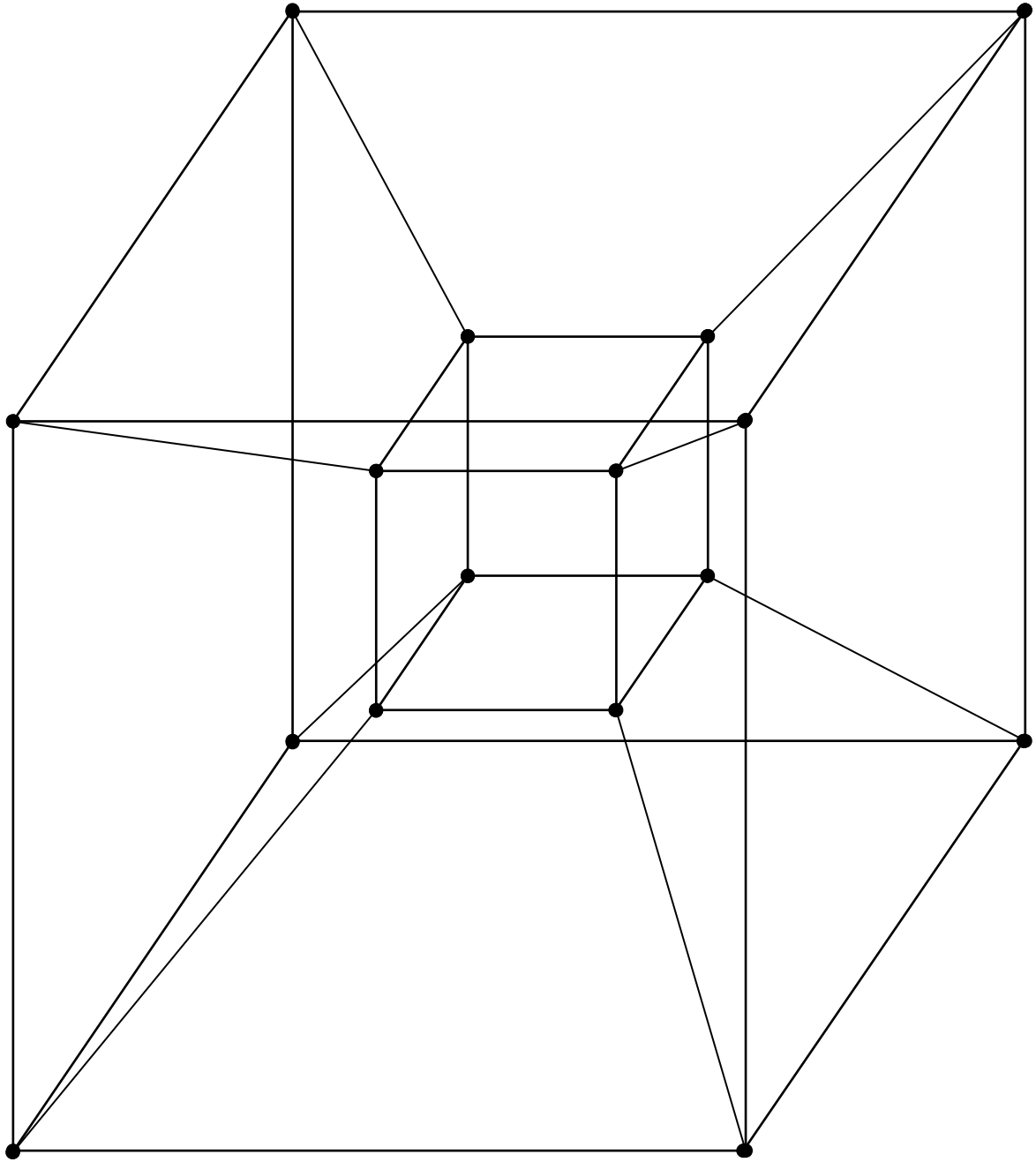


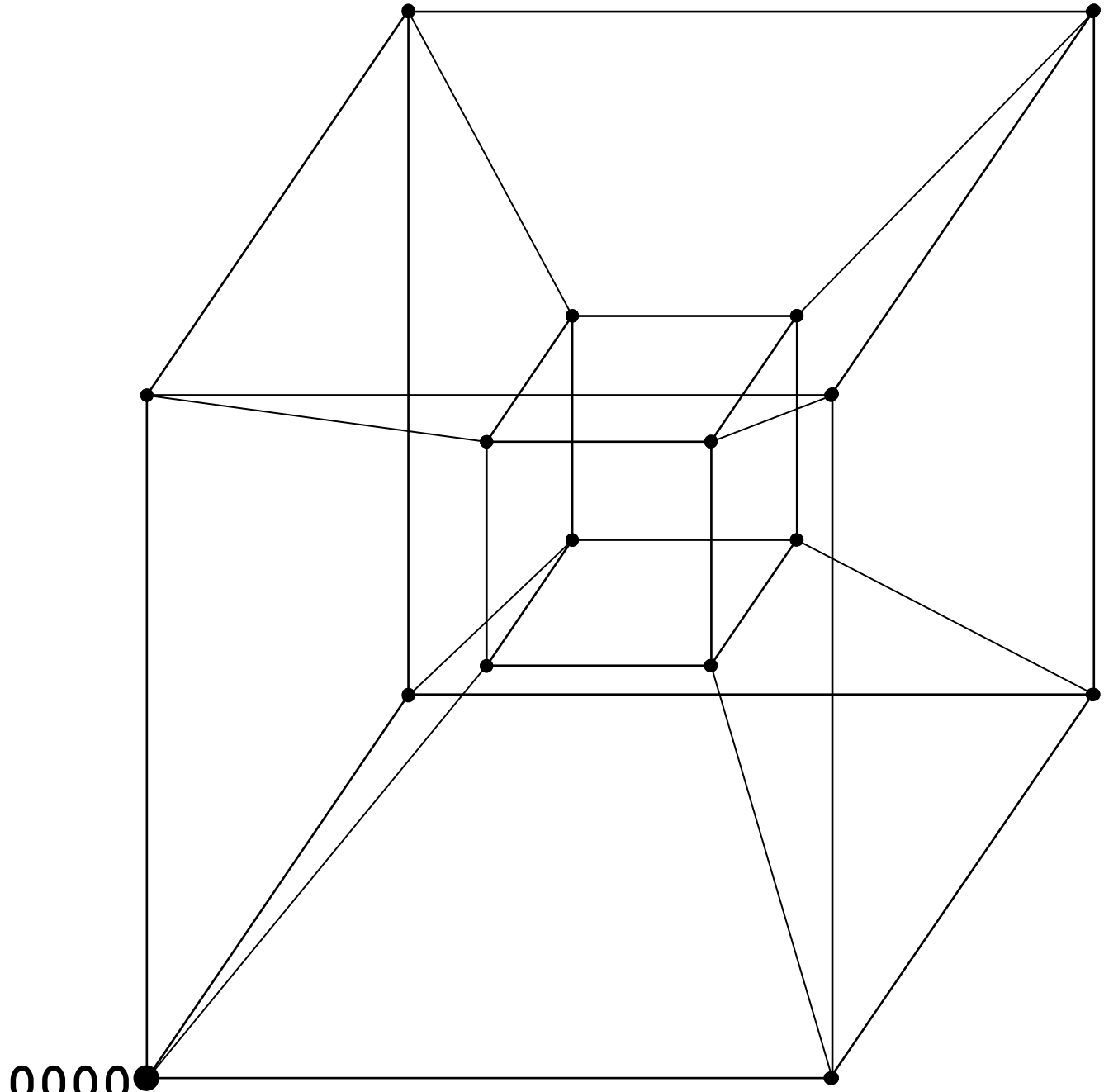
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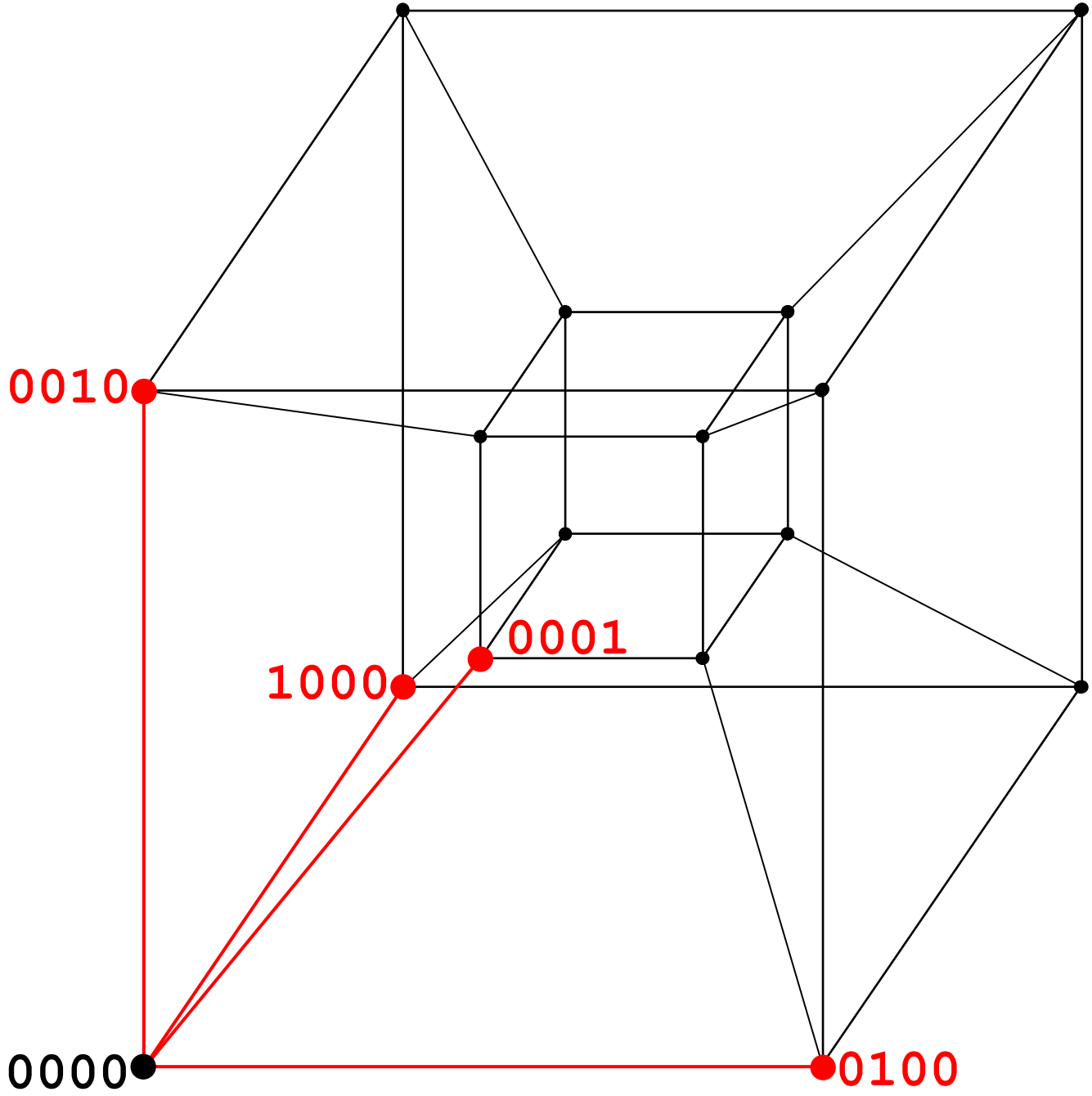


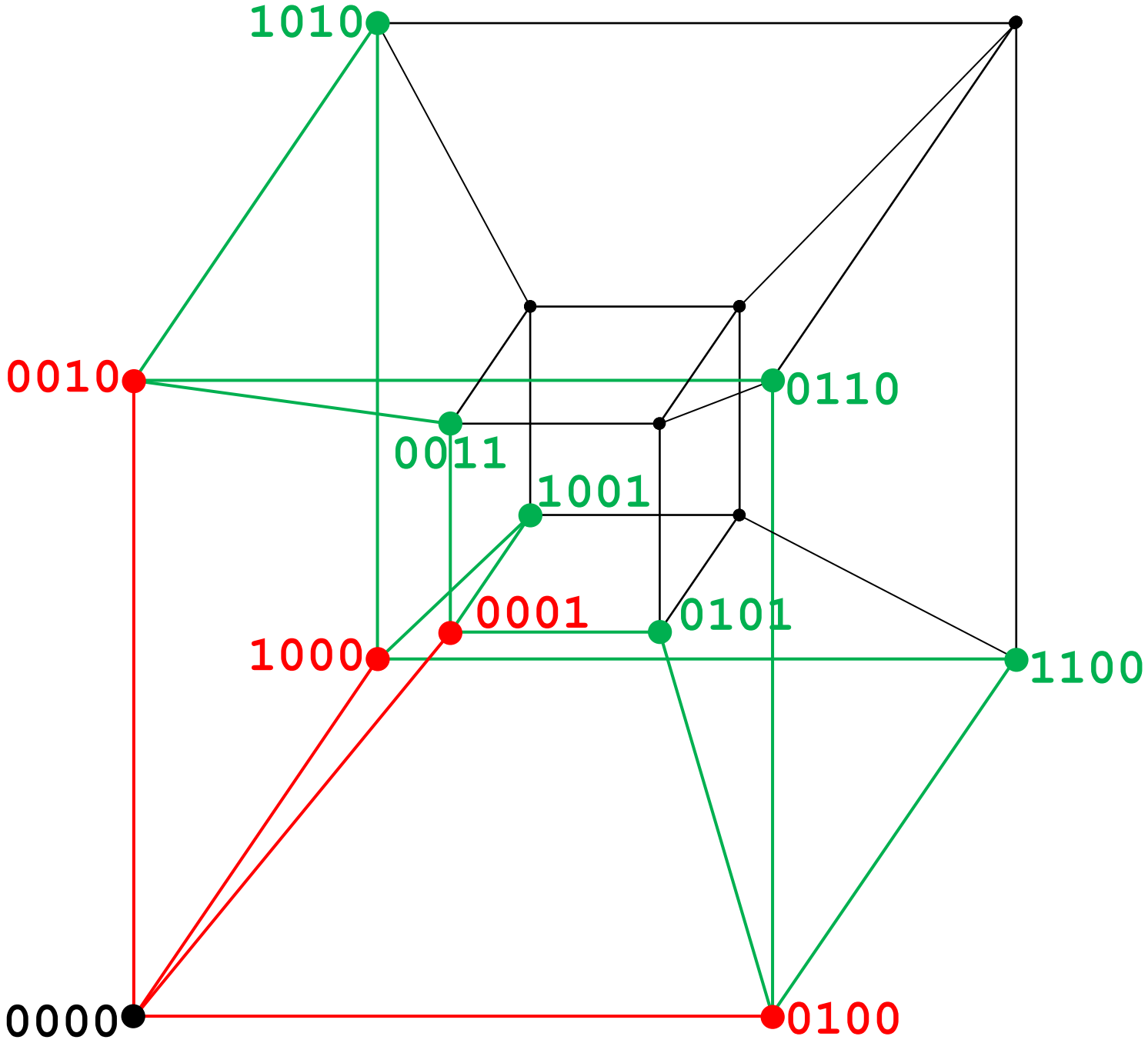
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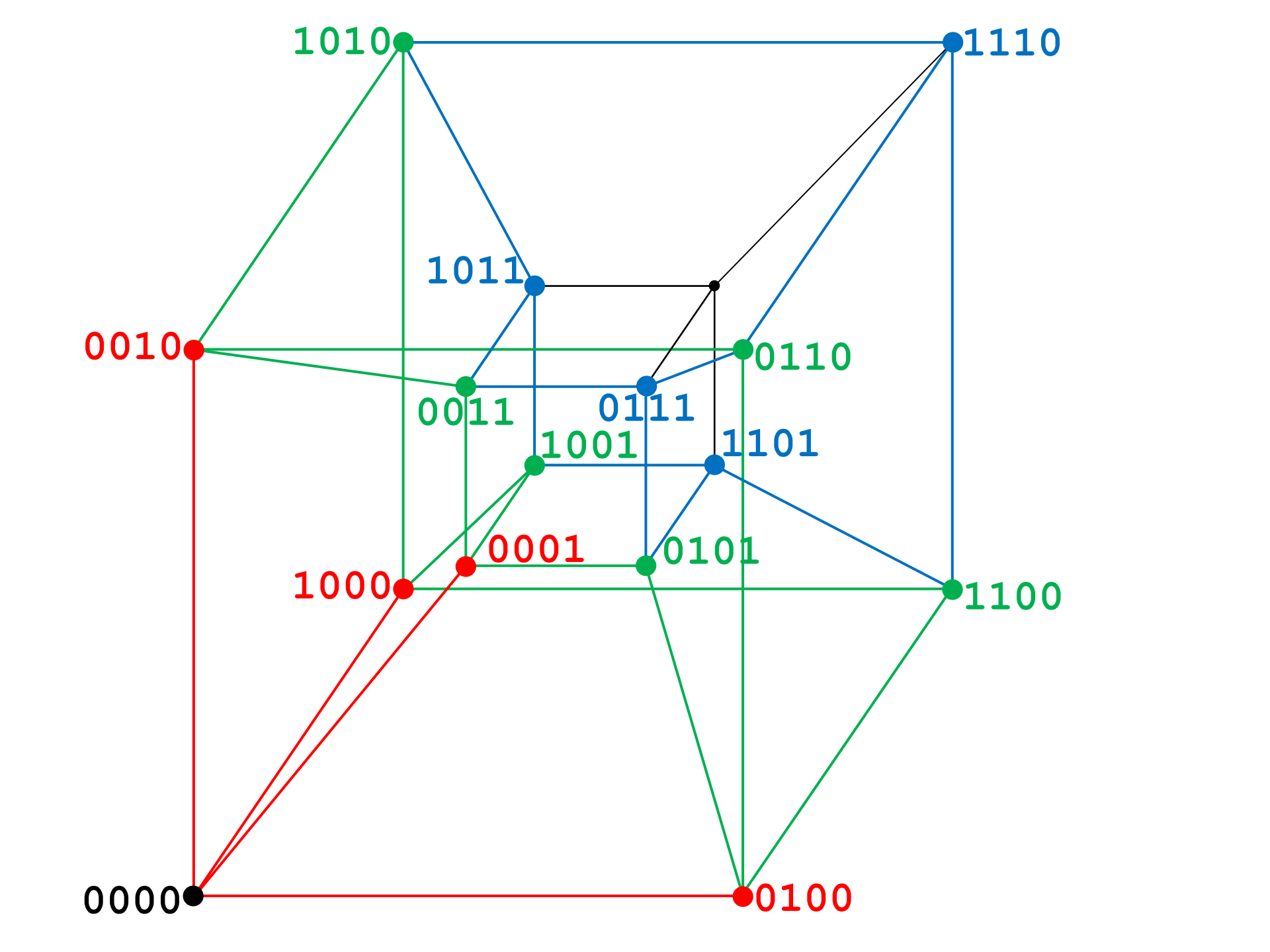


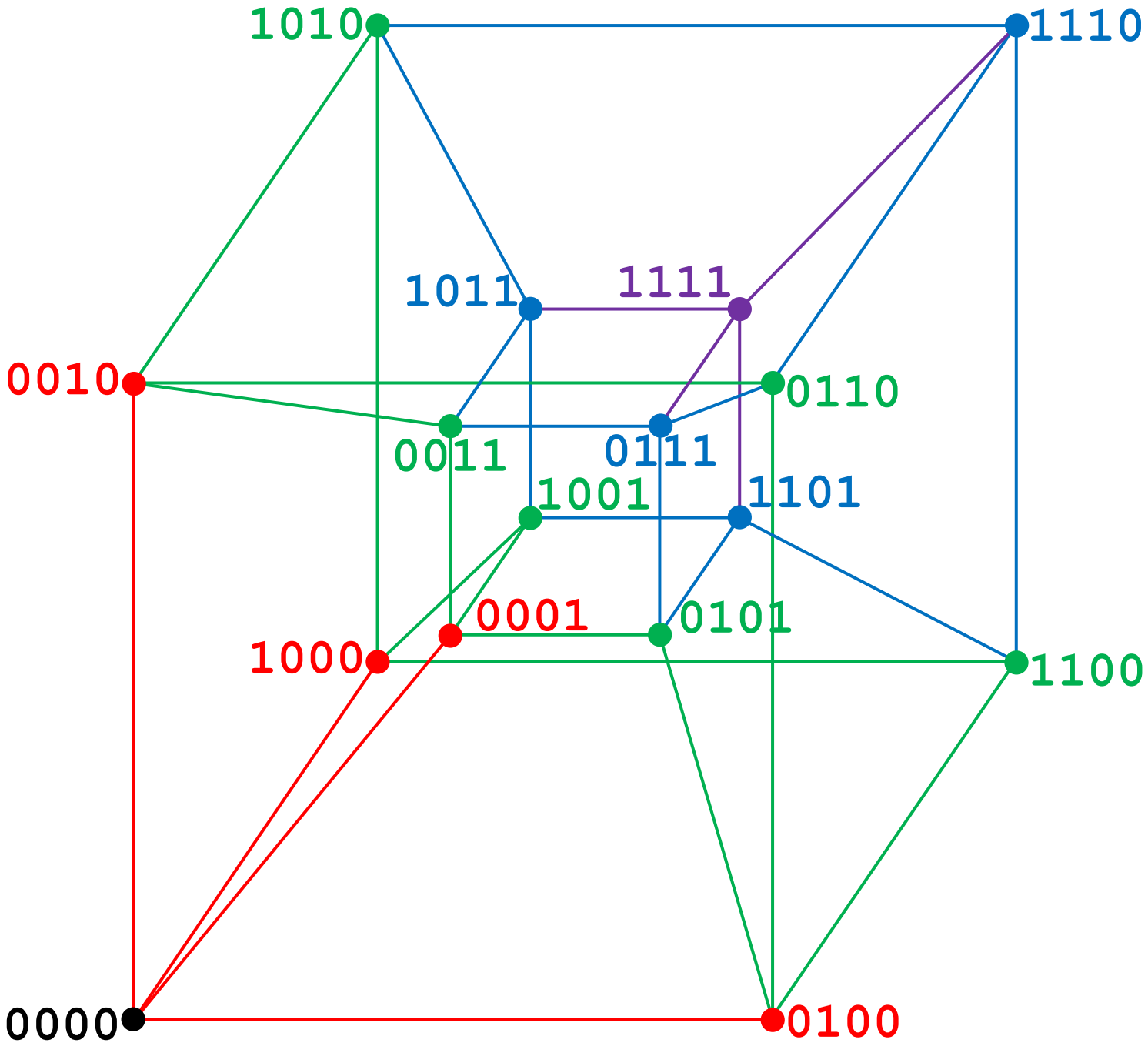


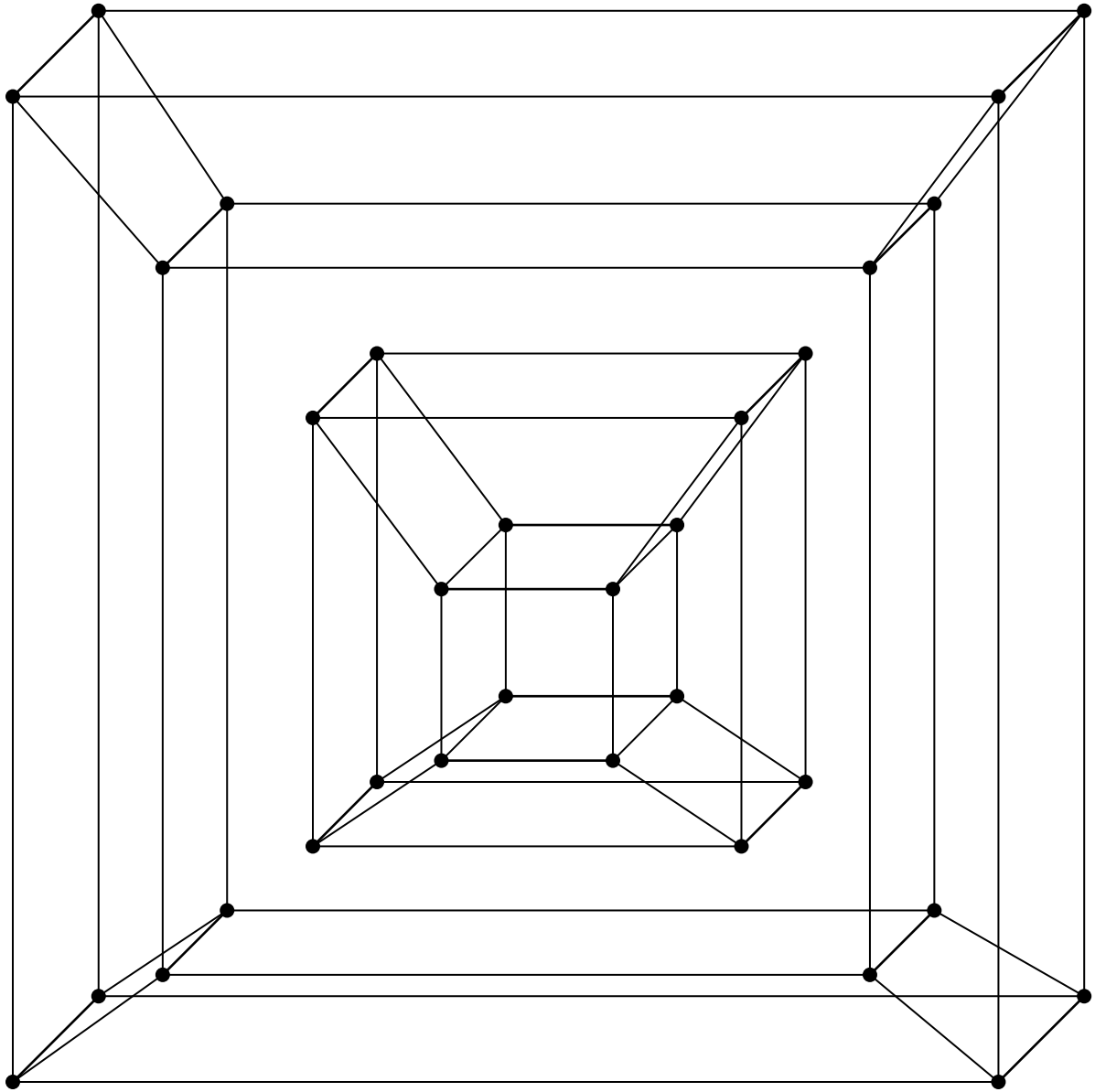

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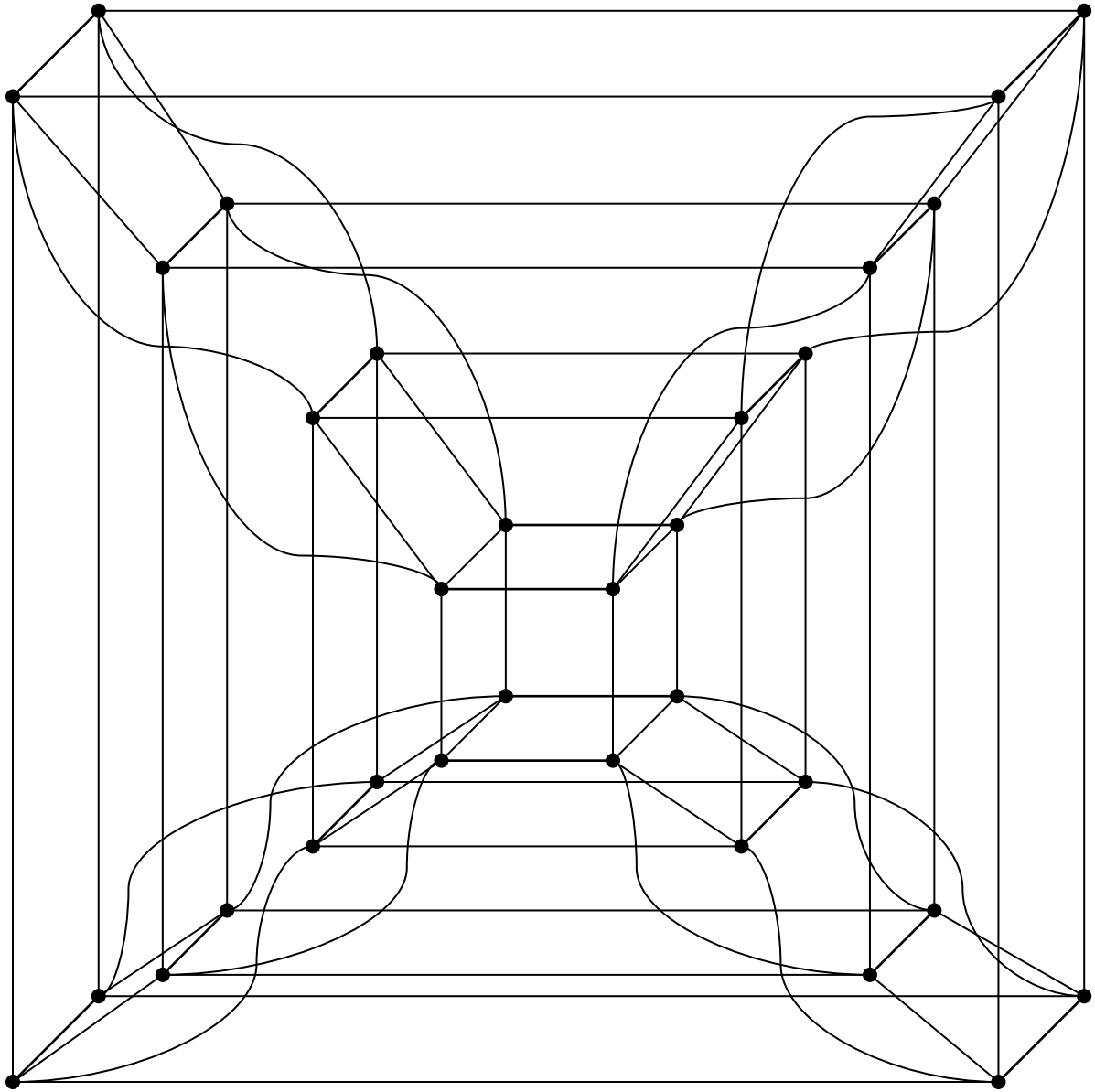

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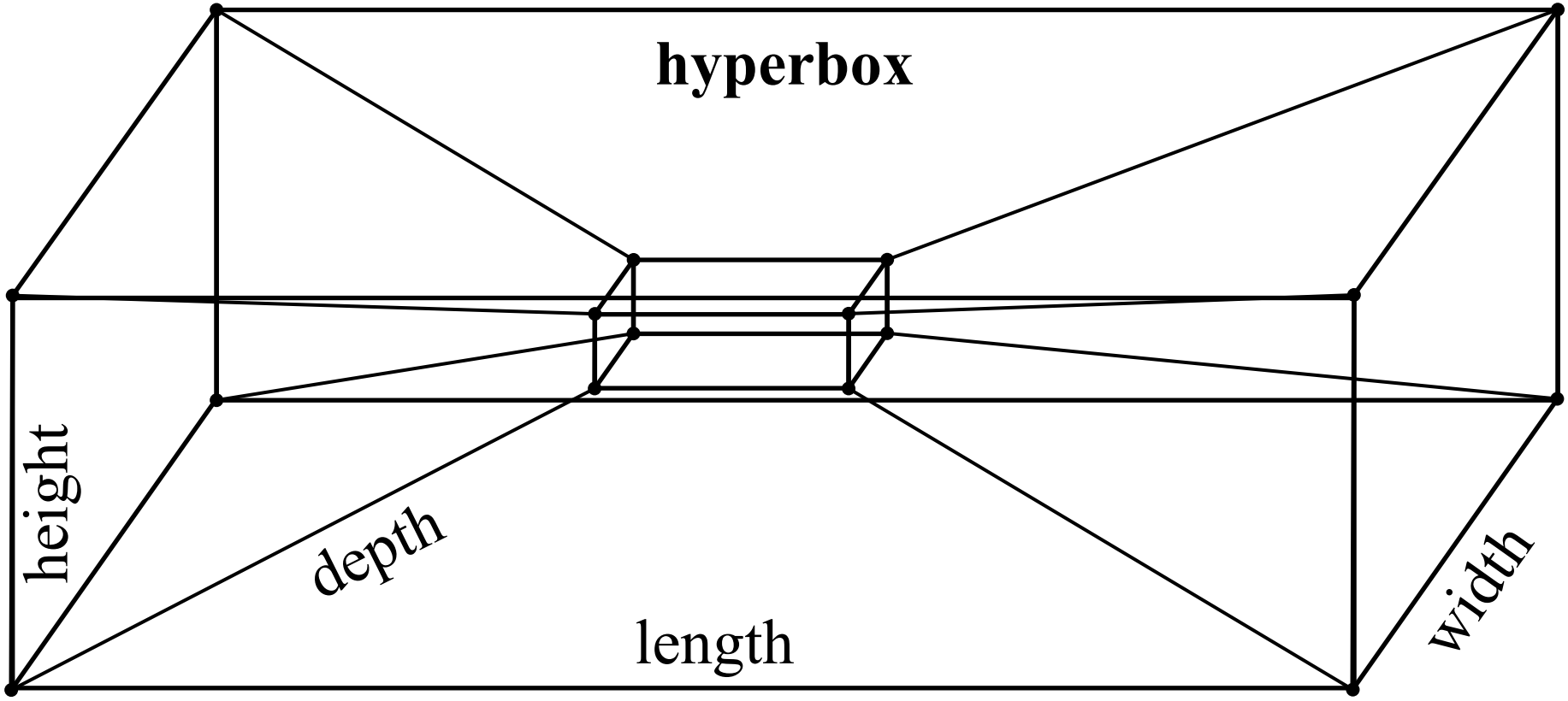

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A 5-cube
contains
10 tesseracts
and
40 cubes

5-cube



…that Christ may dwell in your hearts through faith; that you, being rooted and grounded in love, may be able to comprehend with all the saints what is the **width** and **length** and **depth** and **height**- to know the love of Christ which passes knowledge; that you may be filled with all the fullness of God.

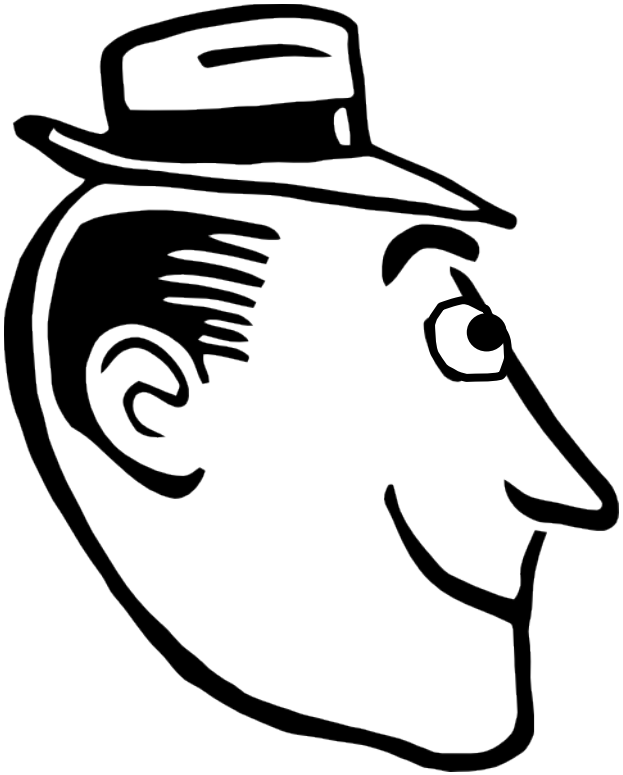
– Ephesians 3:17-19

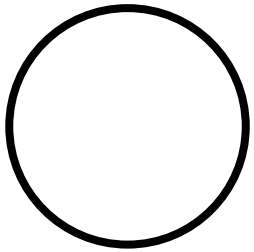
Flatland



Mr. Flatlander

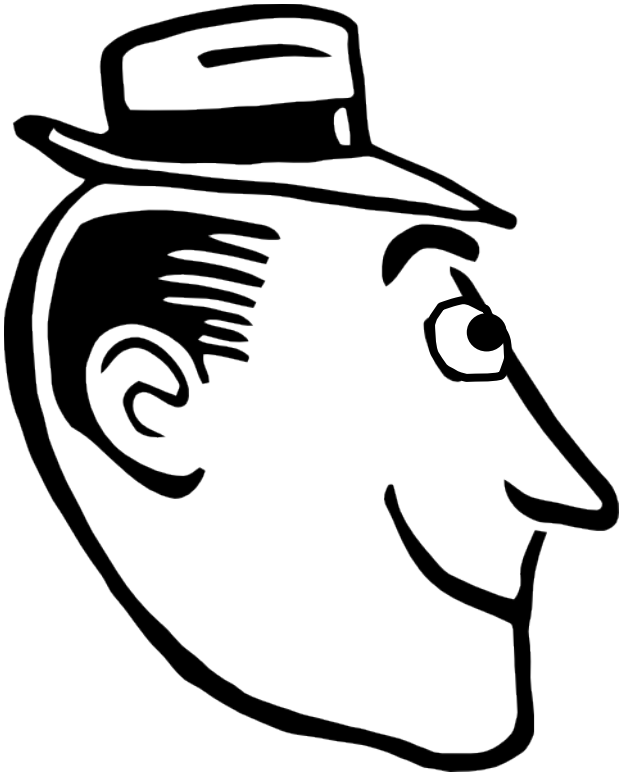
a circle in Flatland





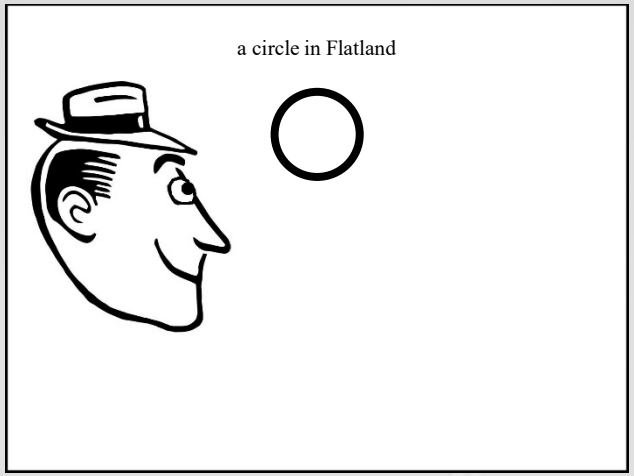
What does Mr. Flatlander see?

a circle in Flatland



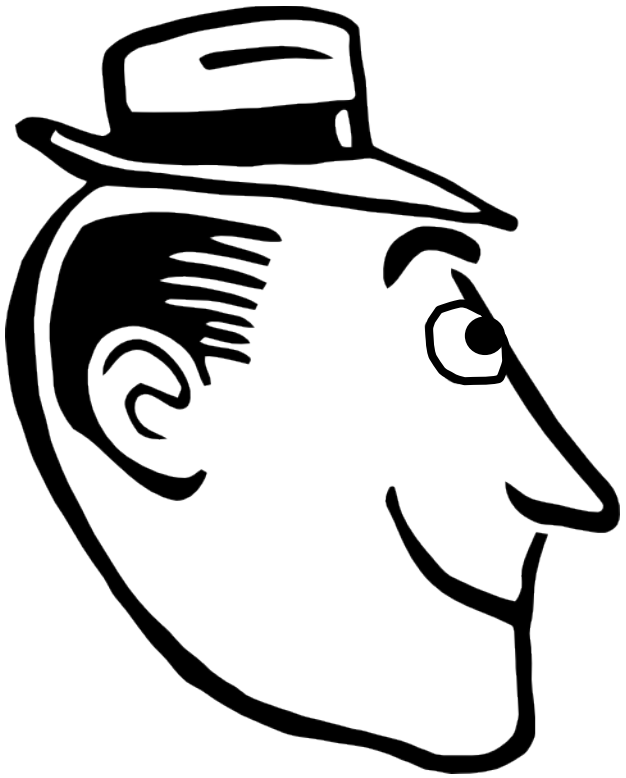
Mr. Flatlander sees a line segment.

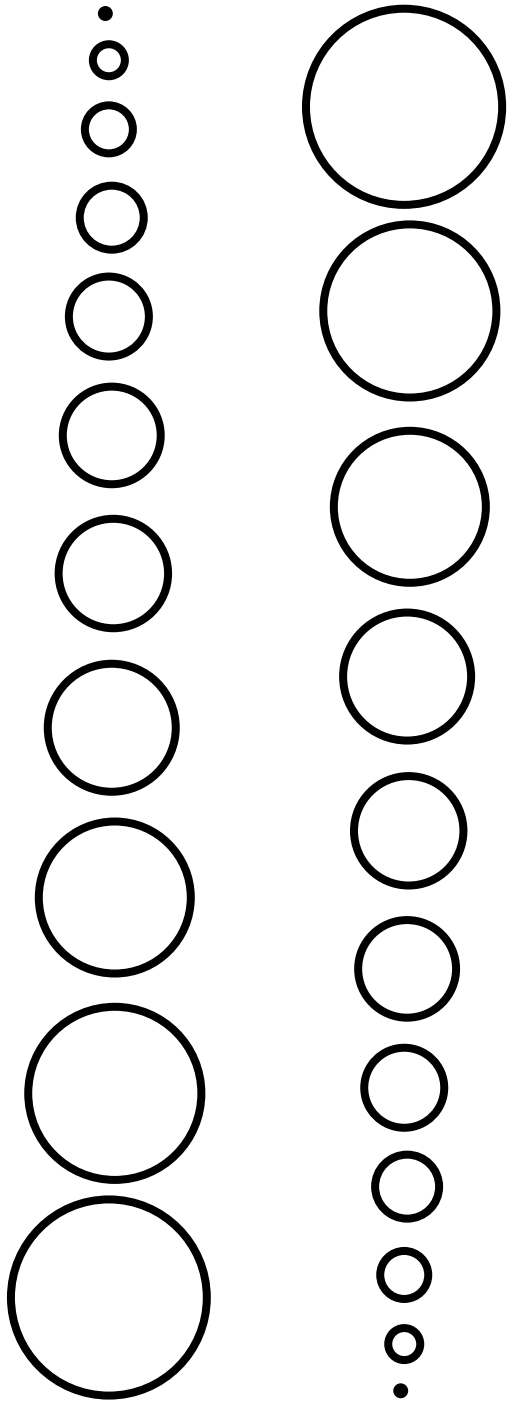
pushing a sphere through Flatland

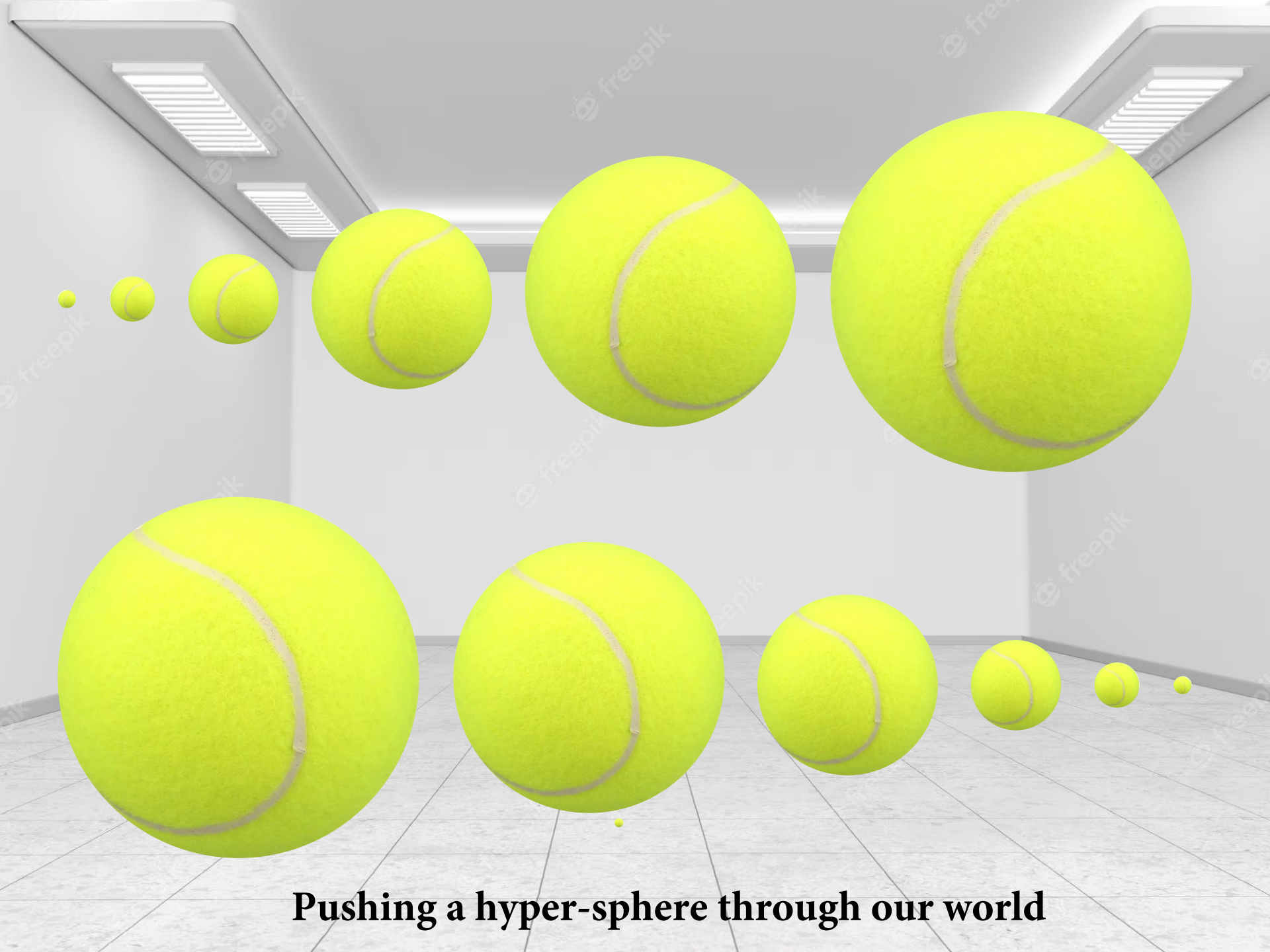




pushing a sphere through Flatland

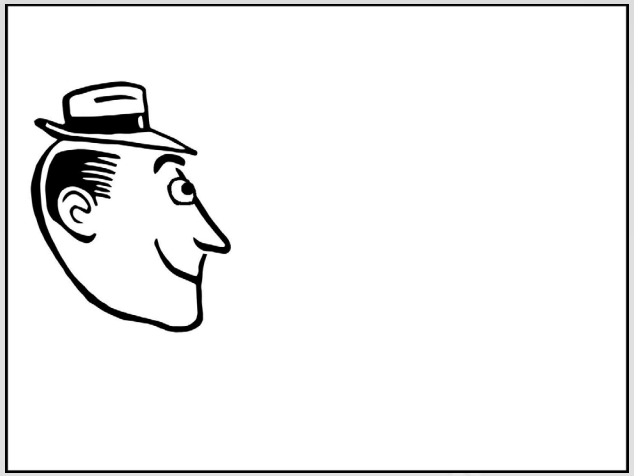


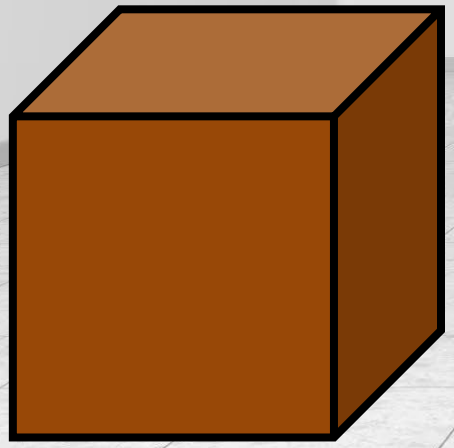




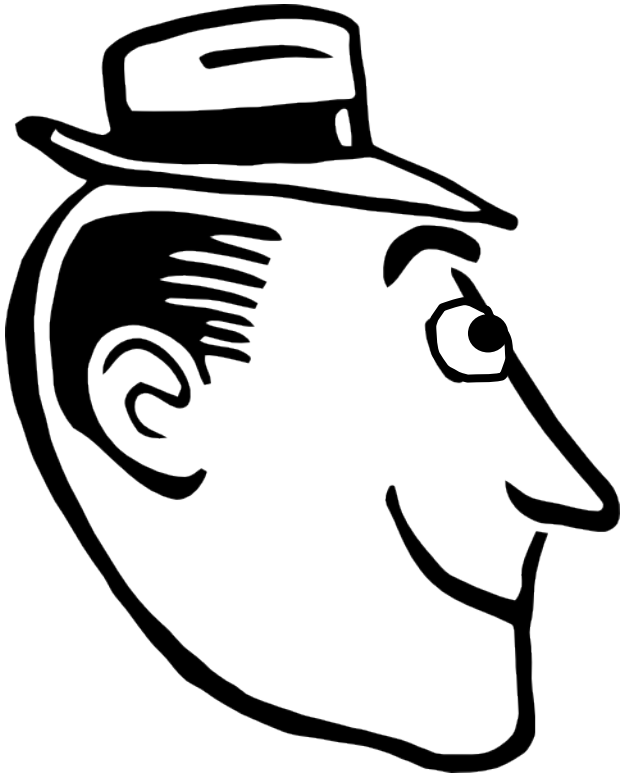
Pushing a hyper-sphere through our world

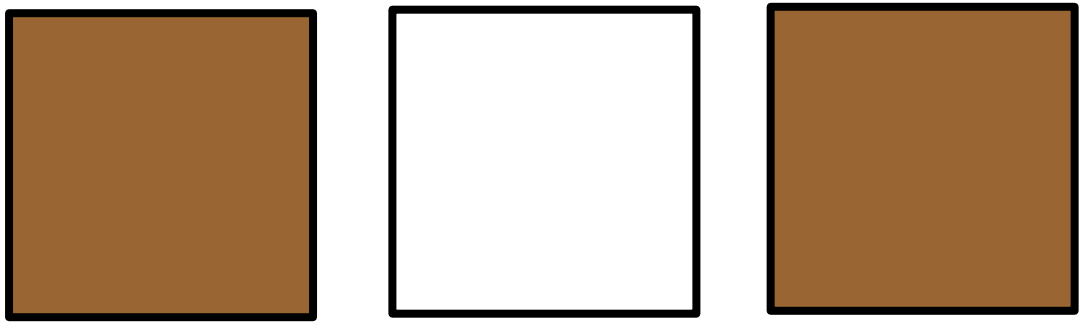
pushing a cardboard cube through Flatland

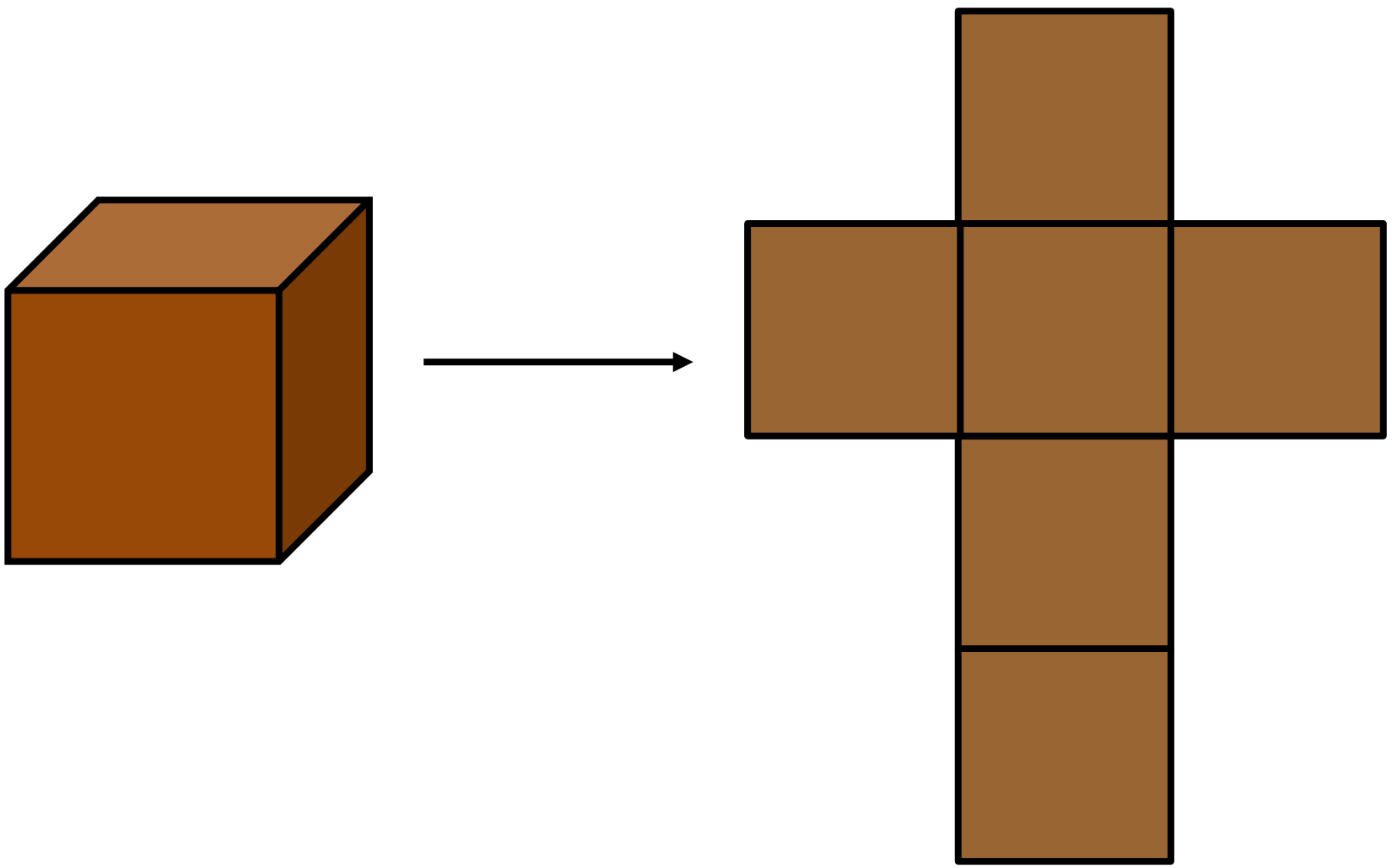




pushing a cardboard cube through Flatland

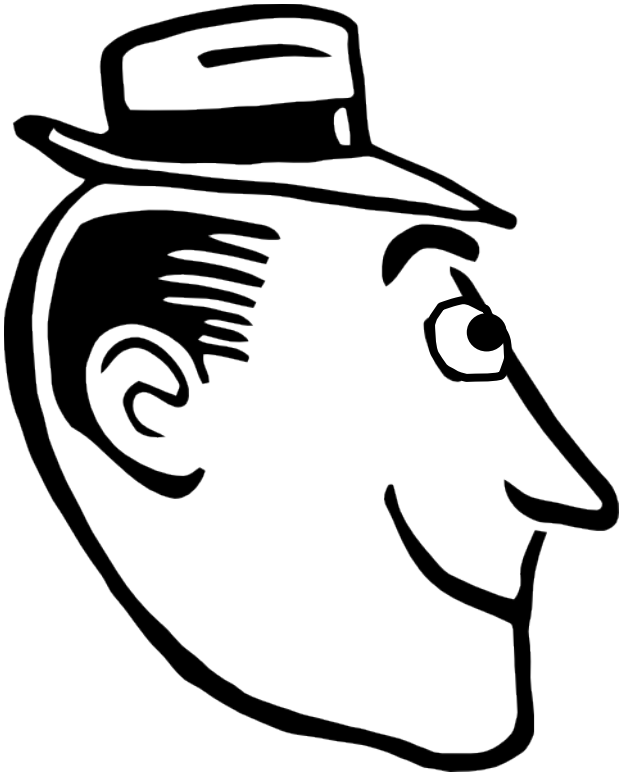


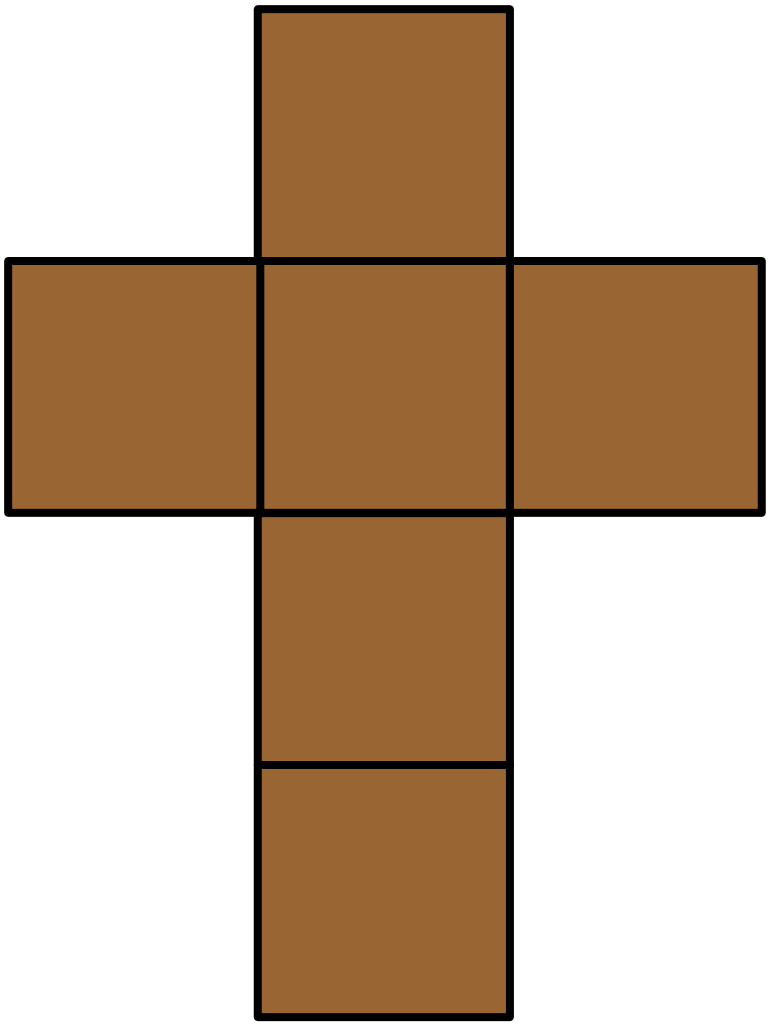


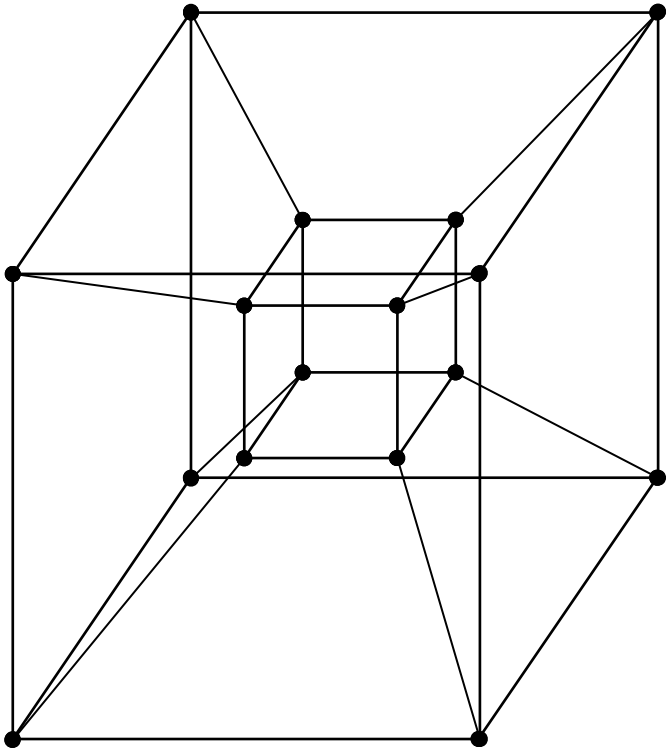


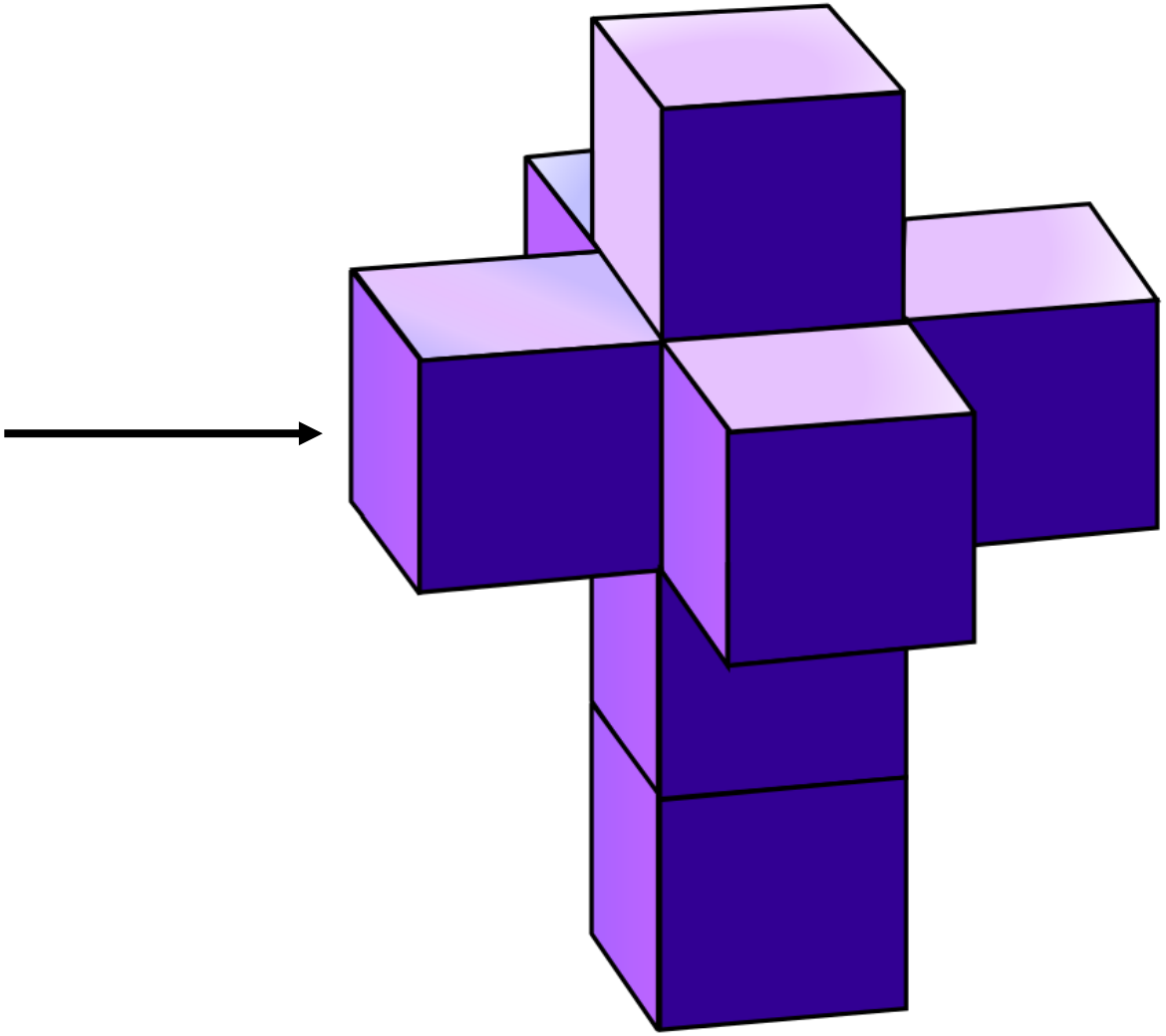
unraveled cube

an unraveled cube in Flatland



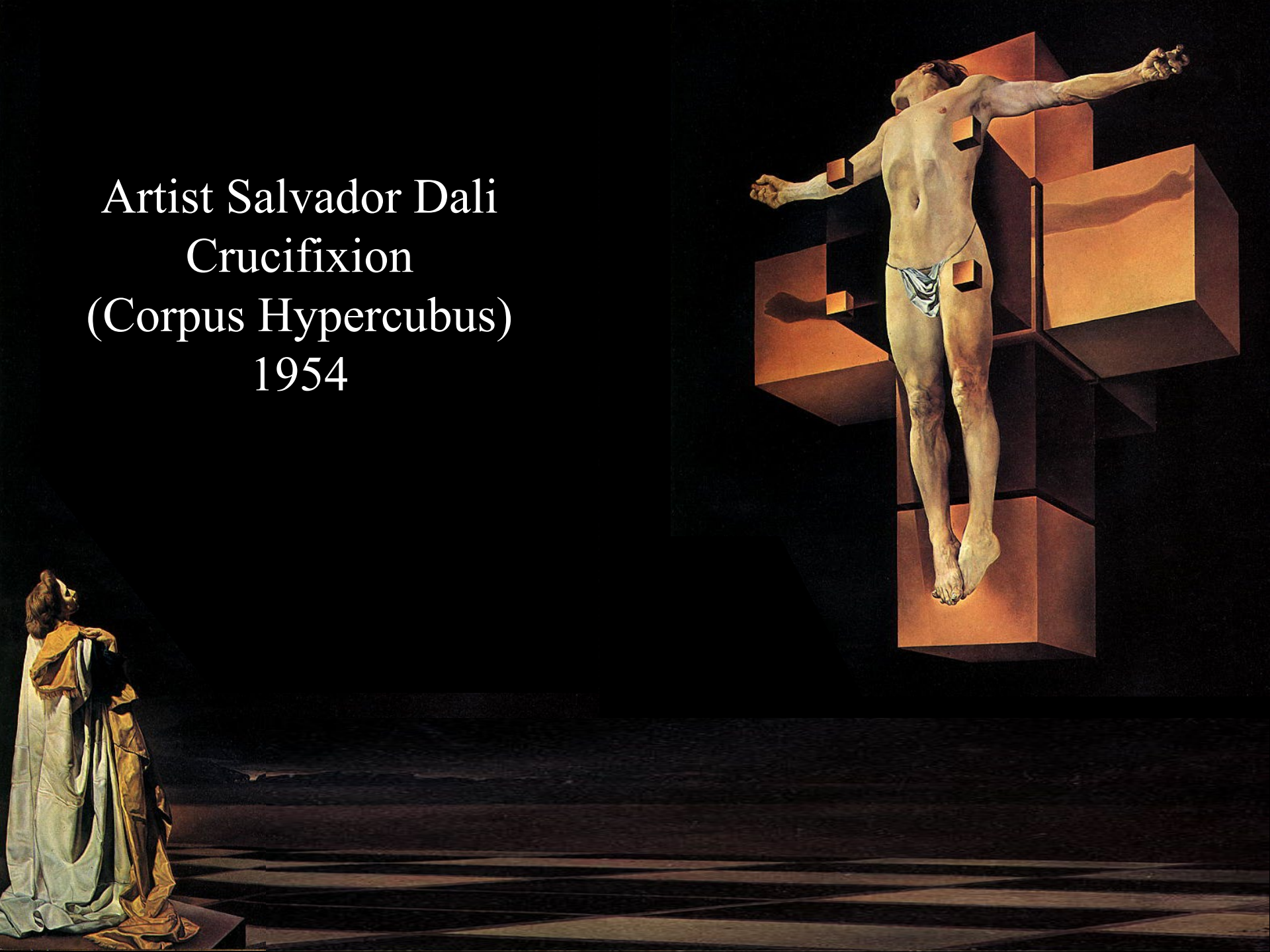




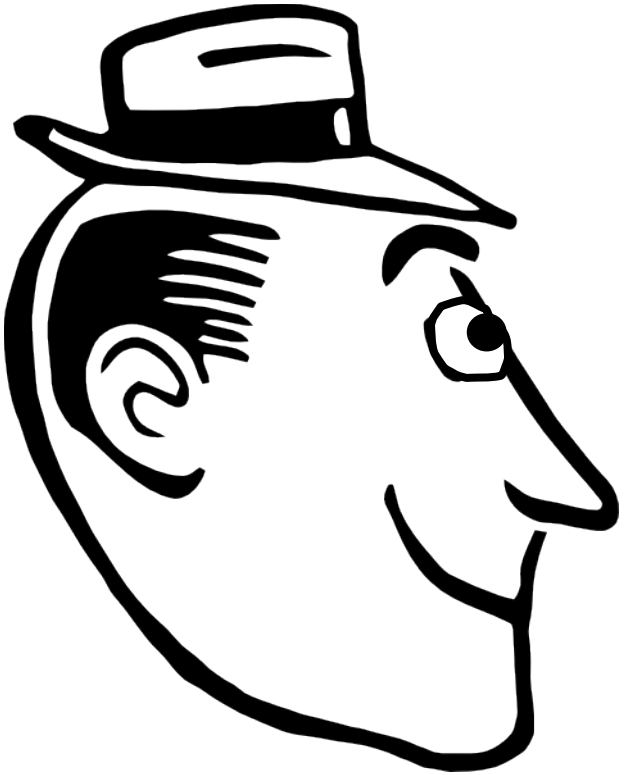


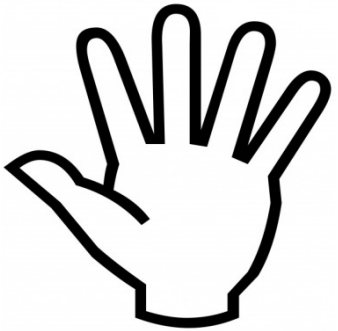
unraveled hypercube

Artist Salvador Dali
Crucifixion
(Corpus Hypercubus)
1954

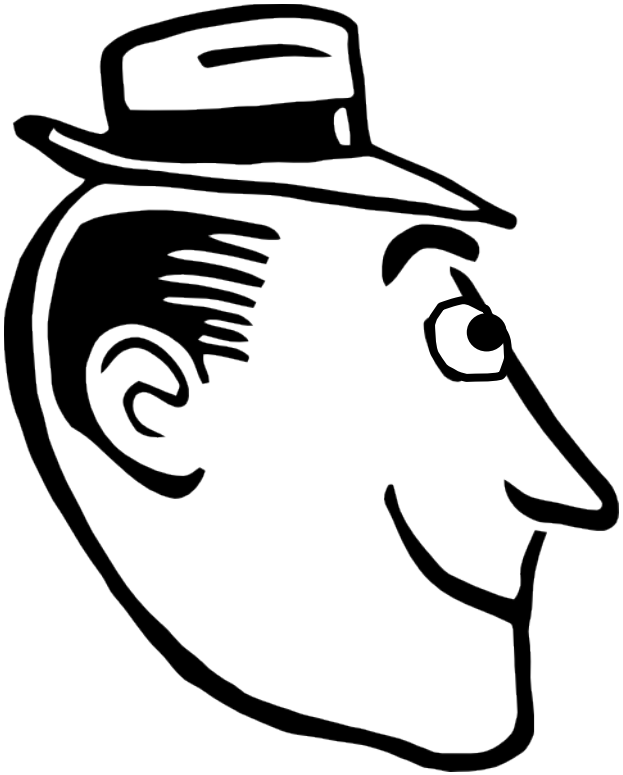


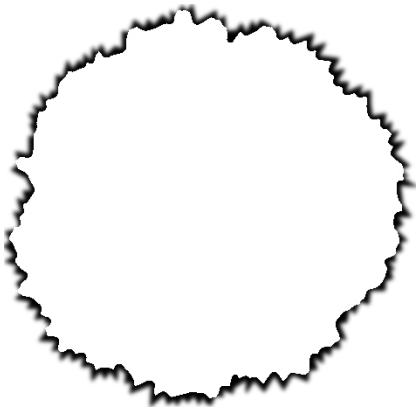
Joe the Hand in Flatland



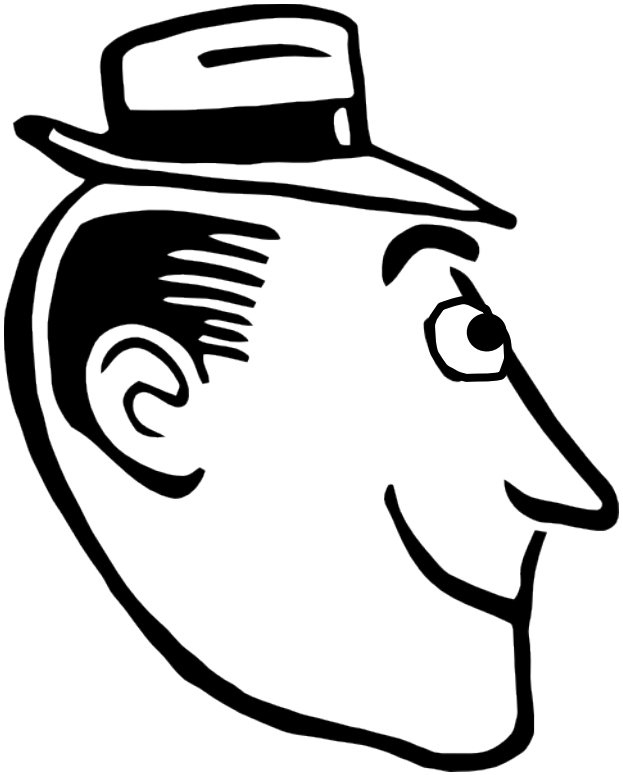


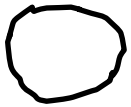
Joe the Hair in Flatland



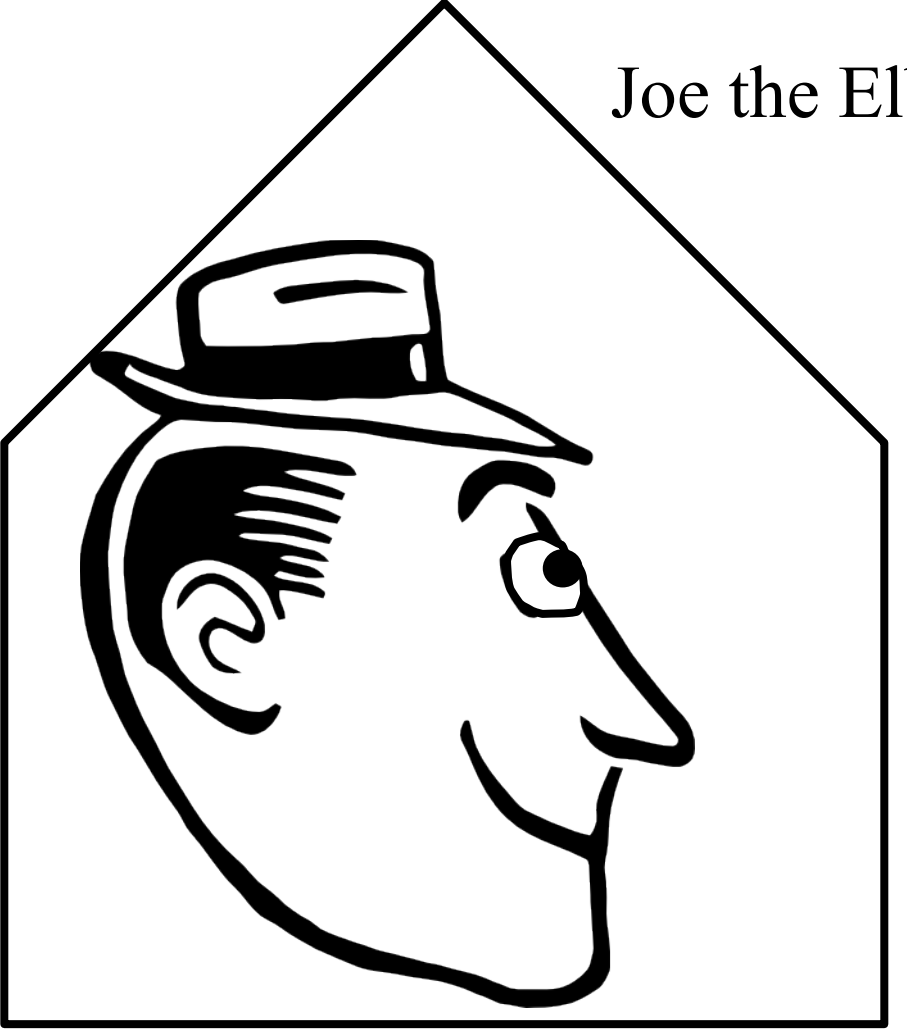


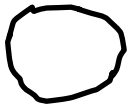
Joe the Elbow in Flatland



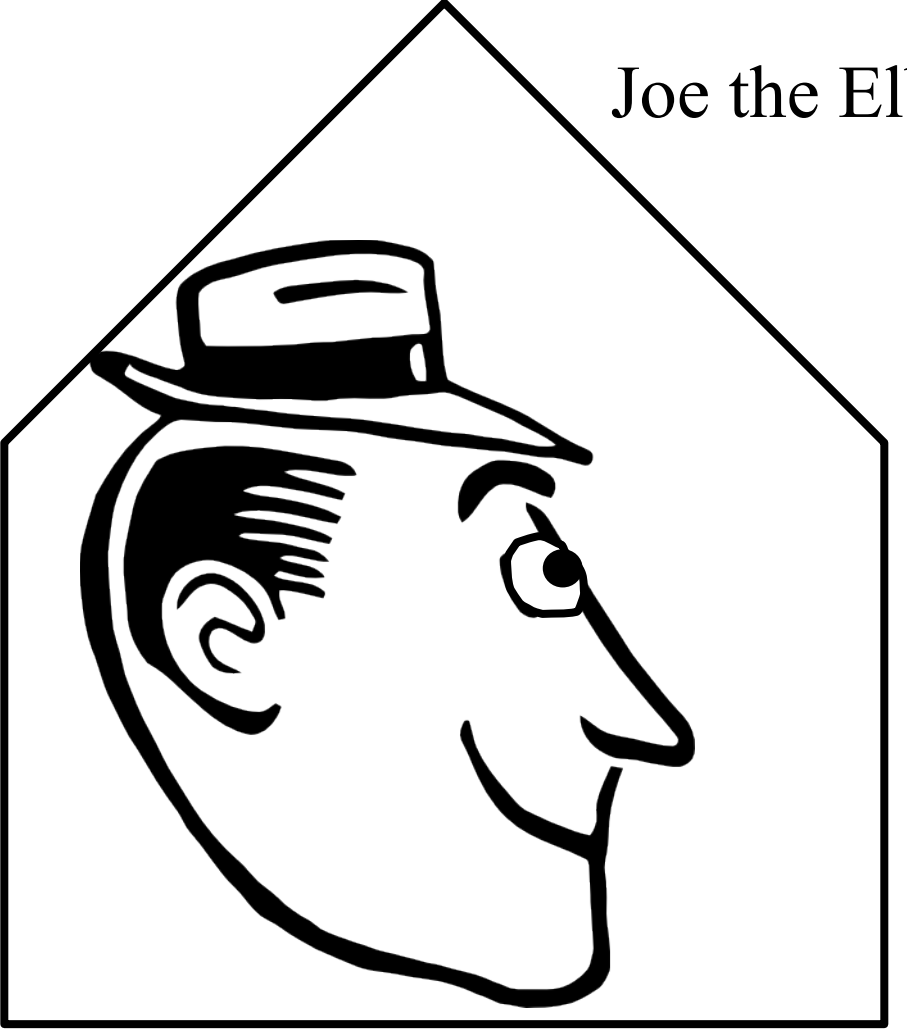


Joe the Elbow in Flatland

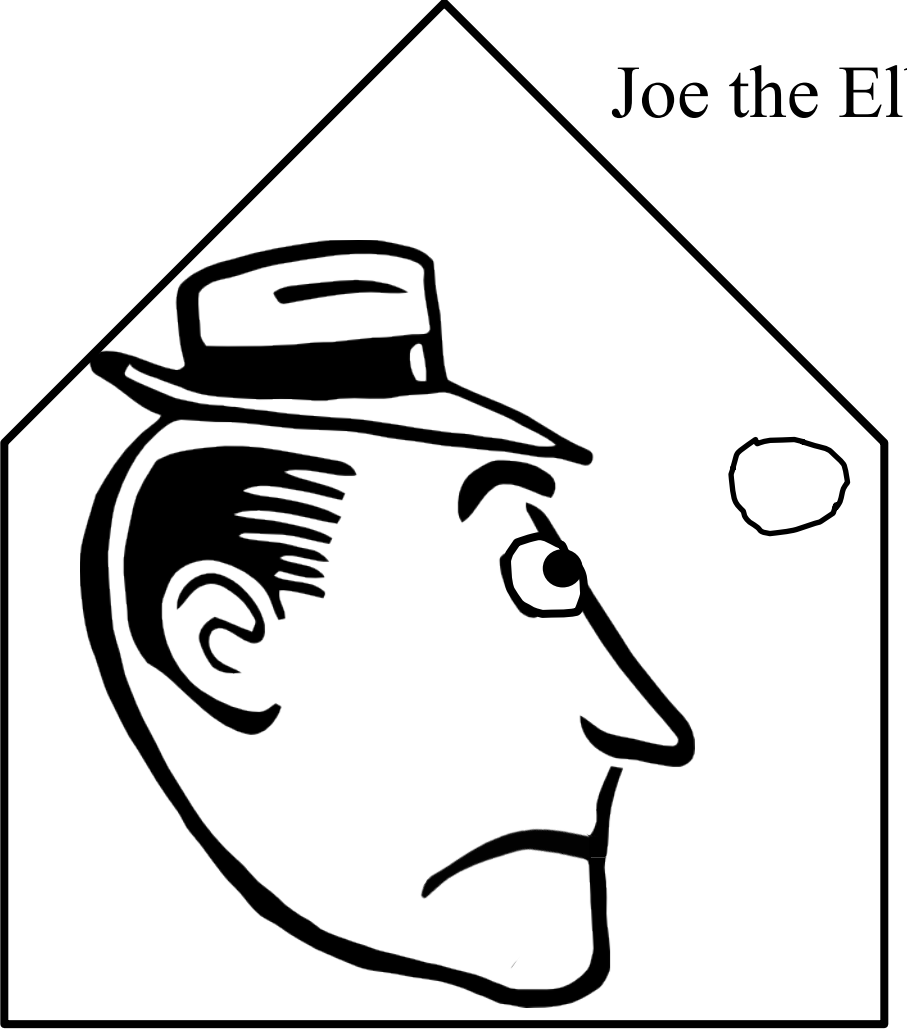


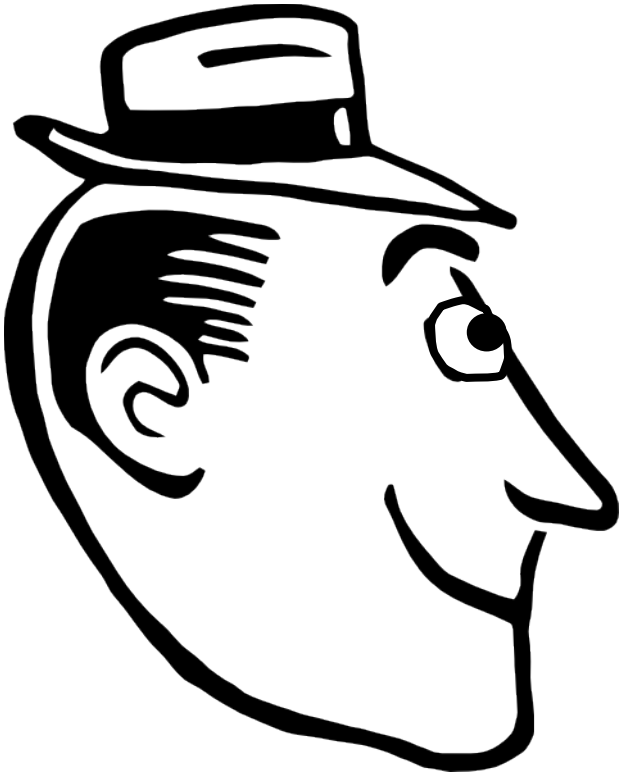


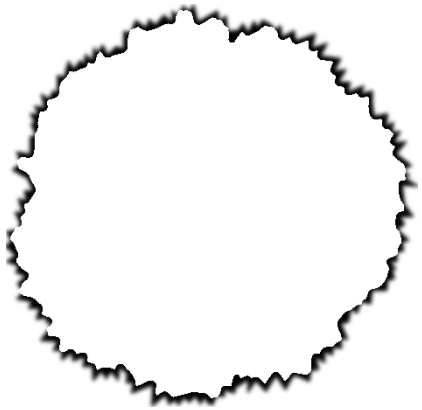
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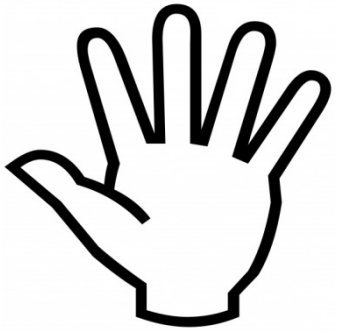
Joe the Elbow in Flatland







Joe the Hair



Joe the Hand



Joe the Elbow

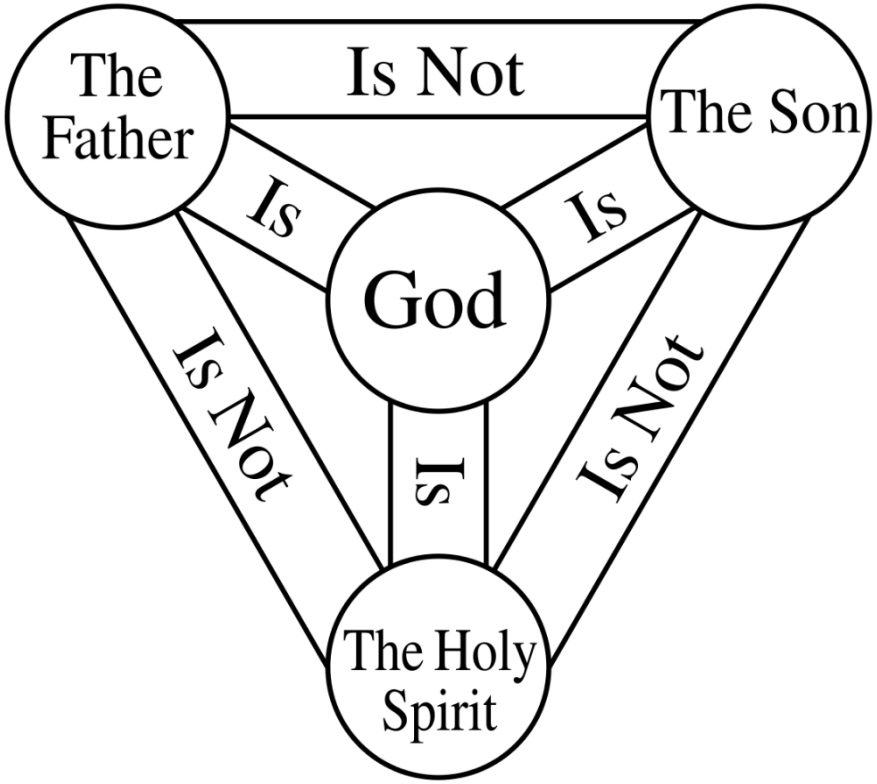
$$1 + 1 + 1 = 1$$

The Trinity

God
the
Father

God
the
Son

God
the
Holy Spirit



If you think you completely understand all the facets of the Trinity, then you're probably thinking about it incorrectly.

$$\infty + \infty + \infty = \infty$$

Do we reject Christianity because the Trinity might be too complicated for us flatlanders?

Do we reject mathematics because the spatial fourth dimension might be too complicated for us flatlanders?

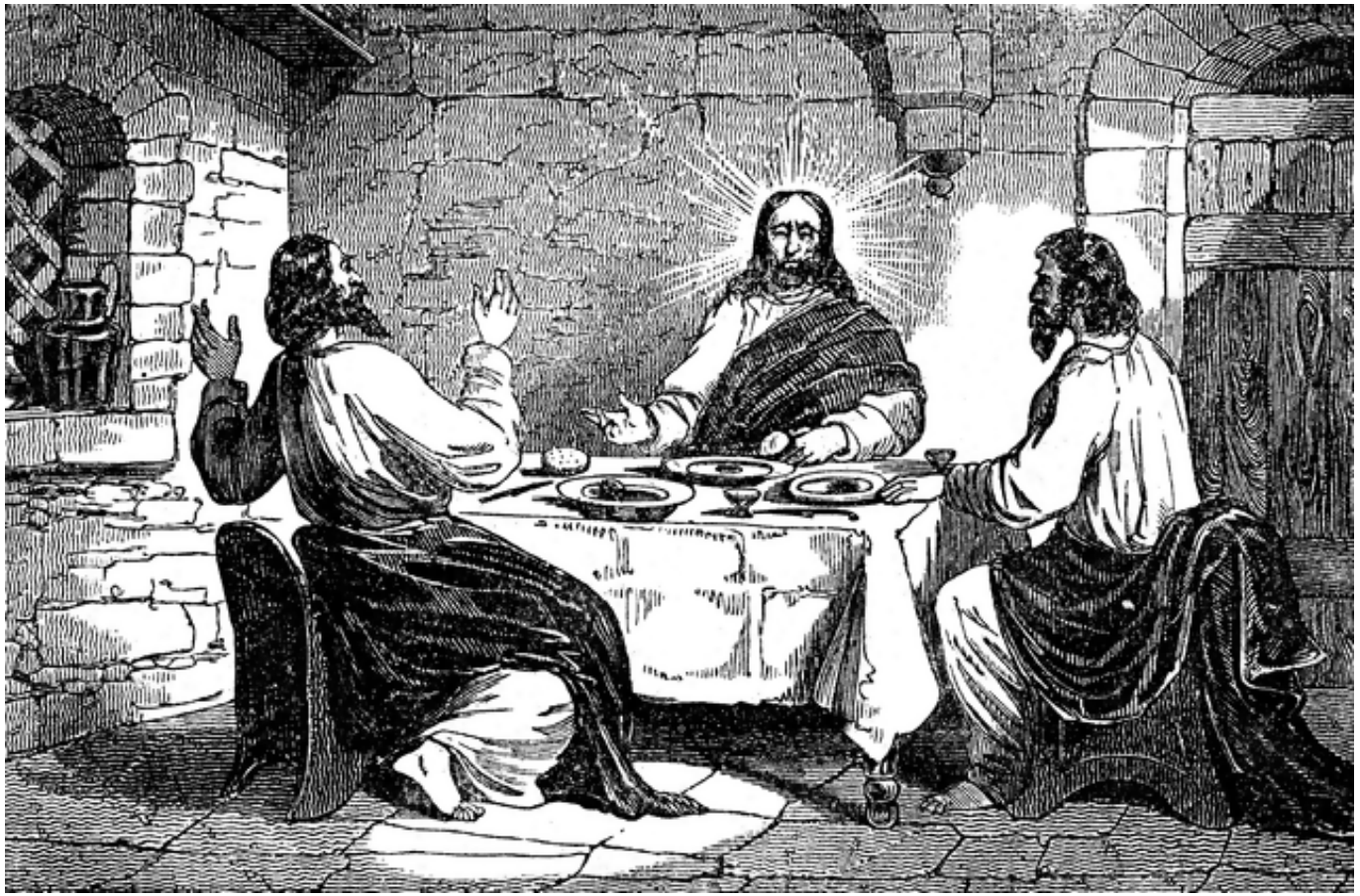
When the doors were shut where the disciples were assembled, for fear of the Jews, Jesus came and stood in the midst, and said to them, “Peace be with you.” – John 20:19



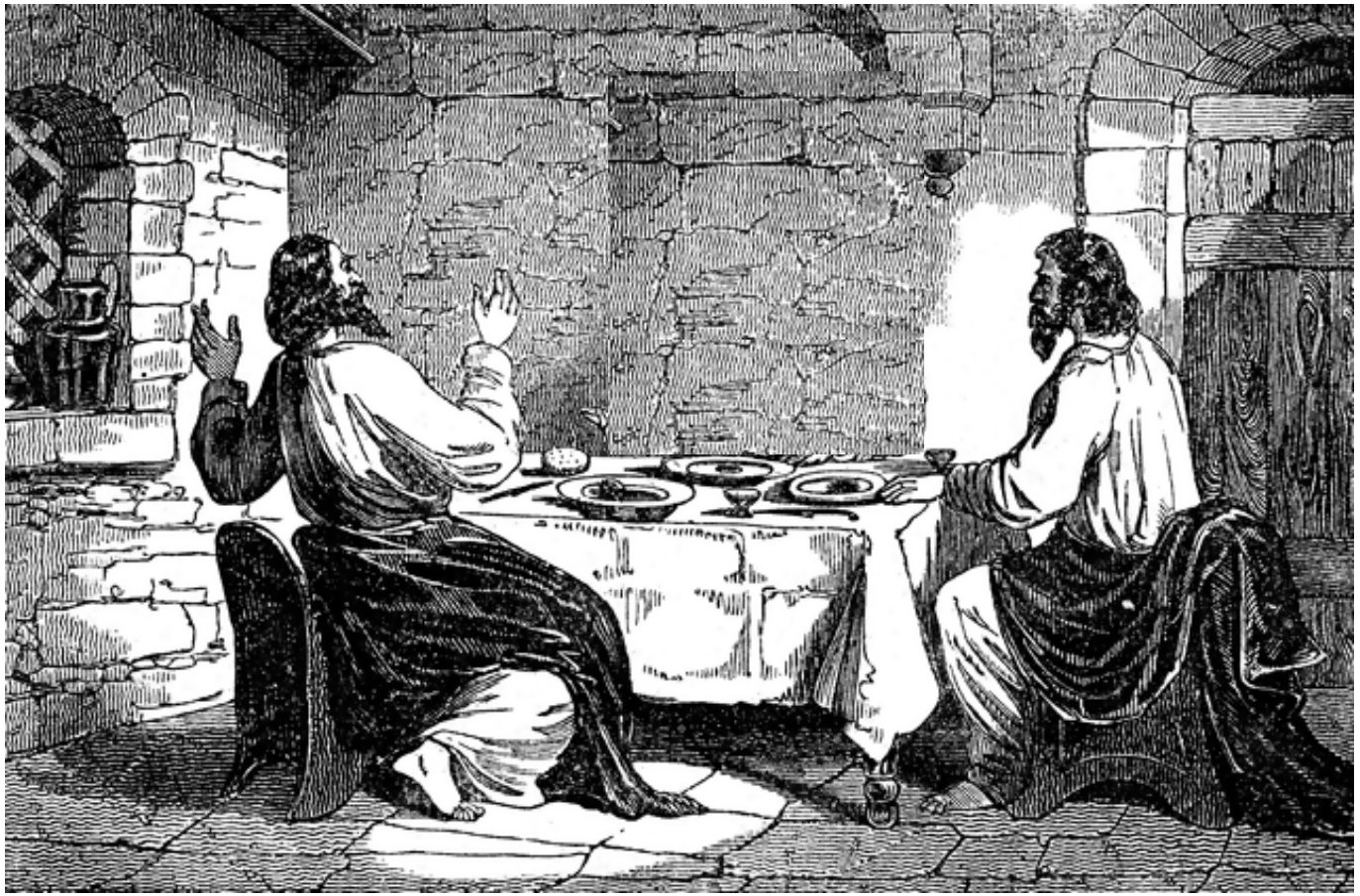
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He vanished from their sight. And they said to one another, “Did not our heart burn within us while He talked with us on the road, and while He opened the Scriptures to us?”– Luke 24:31-32



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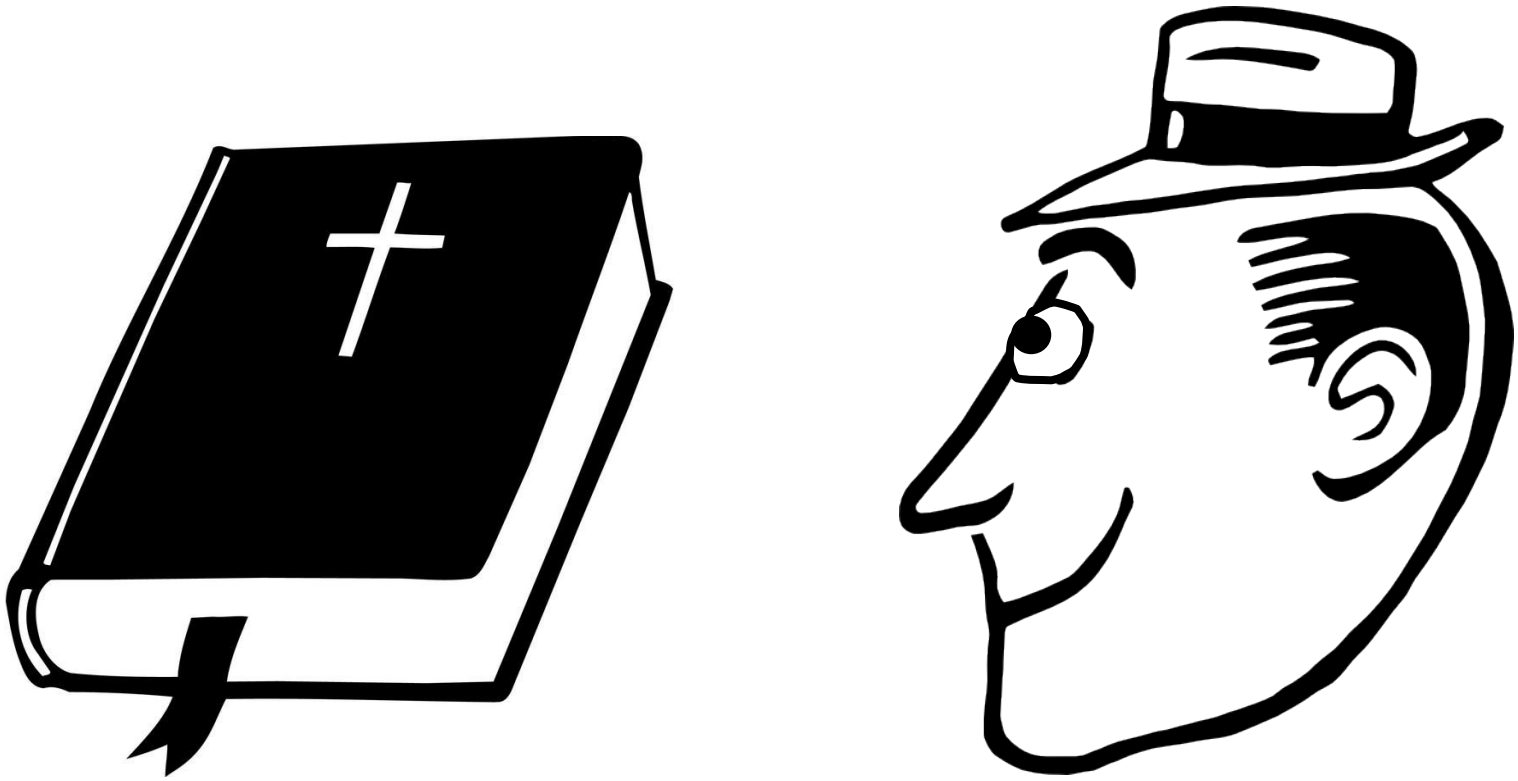




Peter … saw the linen cloths lying there, and the face cloth, which had been on Jesus' head, not lying with the linen cloths but folded up in a place by itself … John saw and believed.
– John 20:6-8







Enoch walked with God,
and Enoch disappeared.

Genesis 5:24
Hebrews 11:5

Elijah went up by a whirlwind to Heaven.
2 Kings 2:11



Son of God joined three Hebrew men in the fiery furnace.
Daniel 3:25



Jesus escaped angry crowds that wanted to kill Him (2 times).
John 8:59 & John 10:39



Philip was caught away by God and transported to another city.
Acts 8:39-40





Paul was caught up to Heaven, then came back.

2 Corinthians 12:1-6

And the heavens shall be rolled up like a scroll – Isaiah 34:4





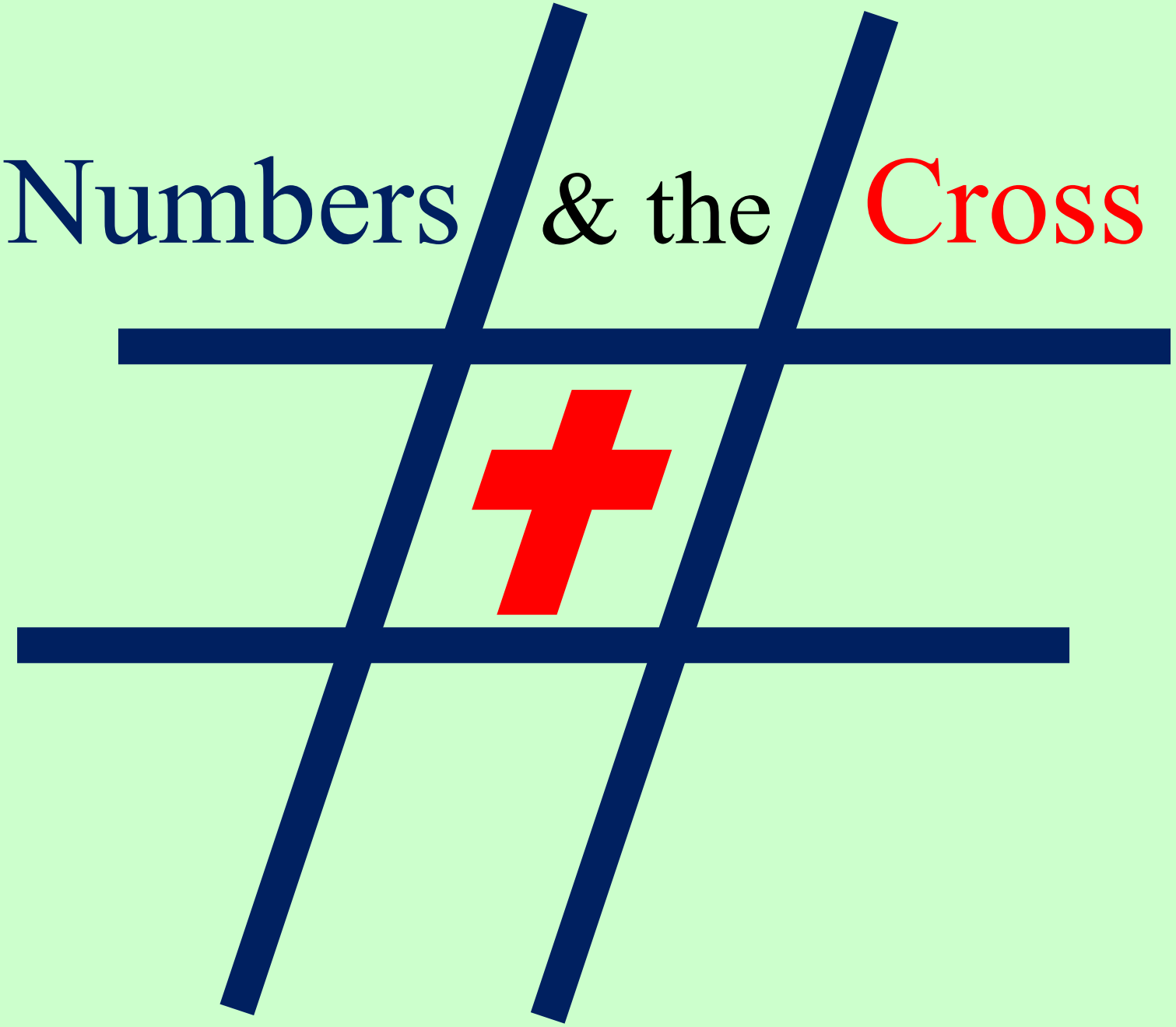
Job 9:8, Psalm 104:2, Isaiah 42:5, 44:24, 45:12, 51:13,
Jeremiah 10:12, 51:15, Zechariah 12:1



God will fold up the heavens like a cloak.

Hebrews 1:12

Numbers & the Cross



Chuck Missler brought this topic to my attention.

12 Tribes	14 Names
Reuben	Reuben
Simeon	Simeon
Levi	Levi
Judah	Judah
Dan	Dan
Naphtali	Naphtali
Gad	Gad
Asher	Asher
Issachar	Issachar
Zebulun	Zebulun
Joseph	Joseph
Benjamin	Manasseh
	Ephraim
	Benjamin

Numbers 1: Now the Lord spoke to Moses in the Wilderness of Sinai, in the tabernacle of meeting, on the first day of the second month, in the second year after they had come out of the land of Egypt, saying: “Take a census of all the congregation of the children of Israel, by their families, by their fathers’ houses, according to the number of names, every male individually, from twenty years old and above—all who are able to go to war in Israel. You and Aaron shall number them by their armies. And with you there shall be a man from every tribe, each one the head of his father’s house. “These are the names of the men who shall stand with you: from Reuben, Elizur the son of Shedeur; from Simeon, Shelumiel the son of Zurishaddai; from Judah, Nahshon the son of Amminadab; from Issachar, Nethanel the son of Zuar; from Zebulun, Eliab the son of Helon; from the sons of Joseph: from Ephraim, Elishama the son of Ammihud; from Manasseh, Gamaliel the son of Pedahzur; from Benjamin, Abidan the son of Gideoni; from Dan, Ahiezer the son of Ammishaddai; from Asher, Pagiel the son of Ocran; from Gad, Eliasaph the son of Deuel; from Naphtali, Ahira the son of Enan.” These were chosen from the congregation, leaders of their fathers’ tribes, heads of the divisions in Israel. Then Moses and Aaron took these men who had been mentioned by name, and they assembled all the congregation together on the first day of the second month; and they recited their ancestry by families, by their fathers’ houses, according to the number of names, from twenty years old and above, each one individually. As the Lord commanded Moses, so he numbered them in the Wilderness of Sinai. Now the children of Reuben, Israel’s oldest son, their genealogies by their families, by their fathers’ house, according to the number of names, every male individually, from twenty years old and above, all who were able to go to war: those who were numbered of the tribe of Reuben were forty-six thousand five hundred. From the children of Simeon, their genealogies by their families, by their fathers’ house, of those who were numbered, according to the number of names, every male individually, from twenty years old and above, all who were able to go to war: those who were numbered of the tribe of Simeon were fifty-nine thousand three hundred. From the children of Gad, their genealogies by their families, by their fathers’ house, according to the number of names, from twenty years old and above, all who were able to go to war: those who were numbered of the tribe of Gad were forty-five thousand six hundred and fifty. From the children of Judah, their genealogies by their families, by their fathers’ house, according to the number of names, from twenty years old and above, all who were able to go to war: those who were numbered of the tribe of Judah were seventy-four thousand six hundred. From the children of Issachar, their genealogies by their families, by their fathers’ house, according to the number of names, from twenty years old and above, all who were able to go to war: those who were numbered of the tribe of Issachar were fifty-four thousand four hundred. From the children of Zebulun, their genealogies by their families, by their fathers’ house, according to the number of names, from twenty years old and above, all who were able to go to war: those who were numbered of the tribe of Zebulun were fifty-seven thousand four hundred. From the sons of Joseph, the children of Ephraim, their genealogies by their families, by their fathers’ house, according to the number of names, from twenty years old and above, all who were able to go to war: those who were numbered of the tribe of Ephraim were forty thousand five hundred. From the children of Manasseh, their genealogies by their families, by their fathers’ house, according to the number of names, from twenty years old and above, all who were able to go to war: those who were numbered of the tribe of Manasseh were thirty-two thousand two hundred. From the children of Benjamin, their genealogies by their families, by their fathers’ house, according to the number of names, from twenty years old and above, all who were able to go to war: those who were numbered of the tribe of Benjamin were thirty-five thousand four hundred. From the children of Dan, their genealogies by their families, by their fathers’ house, according to the number of names, from twenty years old and above, all who were able to go to war: those who were numbered of the tribe of Dan were sixty-two thousand seven hundred. From the children of Asher, their genealogies by their families, by their fathers’ house, according to the number of names, from twenty years old and above, all who were able to go to war: those who were numbered of the tribe of Asher were forty-one thousand five hundred. From the children of Naphtali, their genealogies by their families, by their fathers’ house, according to the number of names, from twenty years old and above, all who were able to go to war: those who were numbered of the tribe of Naphtali were fifty-three thousand four hundred. These are the ones who were numbered, whom Moses and Aaron numbered, with the leaders of Israel, twelve men, each one representing his father’s house. So all who were numbered of the children of Israel, by their fathers’ houses, from twenty years old and above, all who were able to go to war in Israel— all who were numbered were six hundred and three thousand five hundred and fifty. But the Levites were not numbered among them by their fathers’ tribe; for the Lord had spoken to Moses, saying: “Only the tribe of Levi you shall not number, nor take a census of them among the children of Israel; but you shall appoint the Levites over the tabernacle of the Testimony, over all its furnishings, and over all things that belong to it; they shall carry the tabernacle and all its furnishings; they shall attend to it and camp around the tabernacle. And when the tabernacle is to go forward, the Levites shall take it down; and when the tabernacle is to be set up, the Levites shall set it up. The outsider who comes near shall be put to death. The children of Israel shall pitch their tents, everyone by his own camp, everyone by his own standard, according to their armies; but the Levites shall camp around the tabernacle of the Testimony, that there may be no wrath on the congregation of the children of Israel; and the Levites shall keep charge of the tabernacle of the Testimony.” Thus the children of Israel did; according to all that the Lord commanded Moses, so they did.

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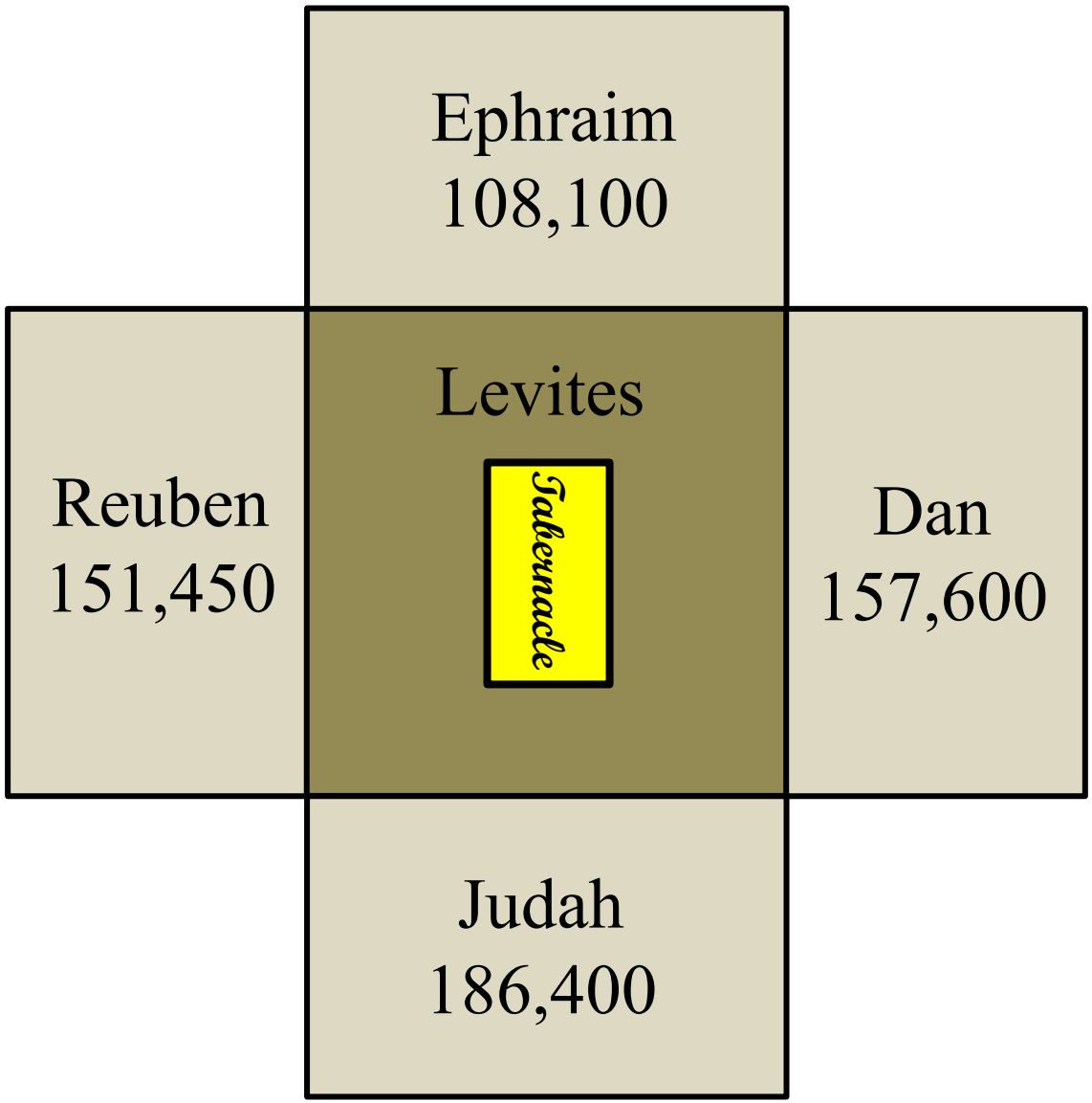
14 Names

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Ephraim
Benjamin

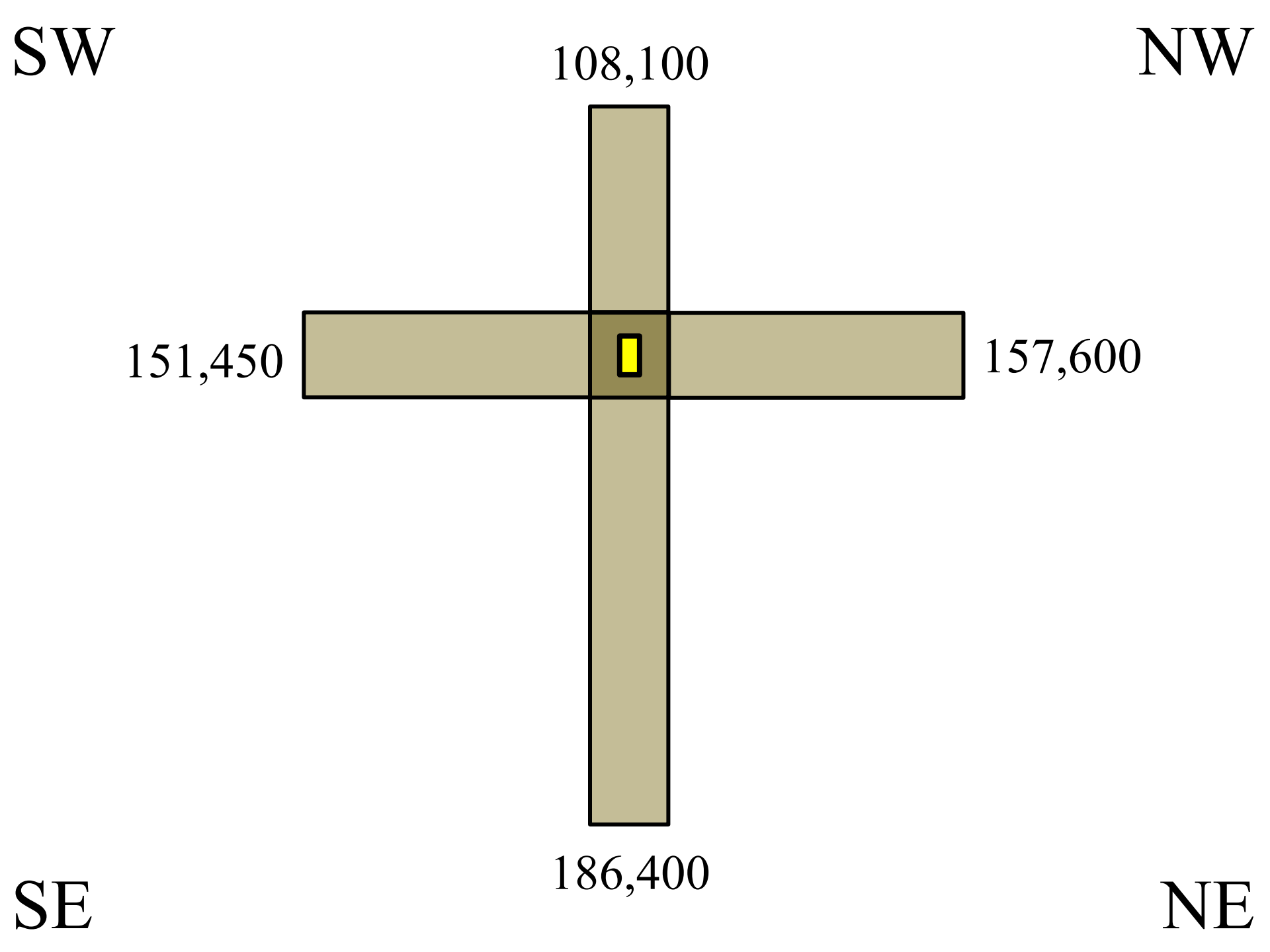
Numbers 1

Camp Reuben 151,450 south	Reuben	46,500
	Simeon	59,300
	Gad	45,650
Camp Judah 186,400 east	Judah	74,600
	Issachar	54,400
	Zebulun	57,400
Camp Ephraim 108,100 west	Ephraim	40,500
	Manasseh	32,200
	Benjamin	35,400
Camp Dan 157,600 north	Dan	62,700
	Asher	41,500
	Naphtali	53,400

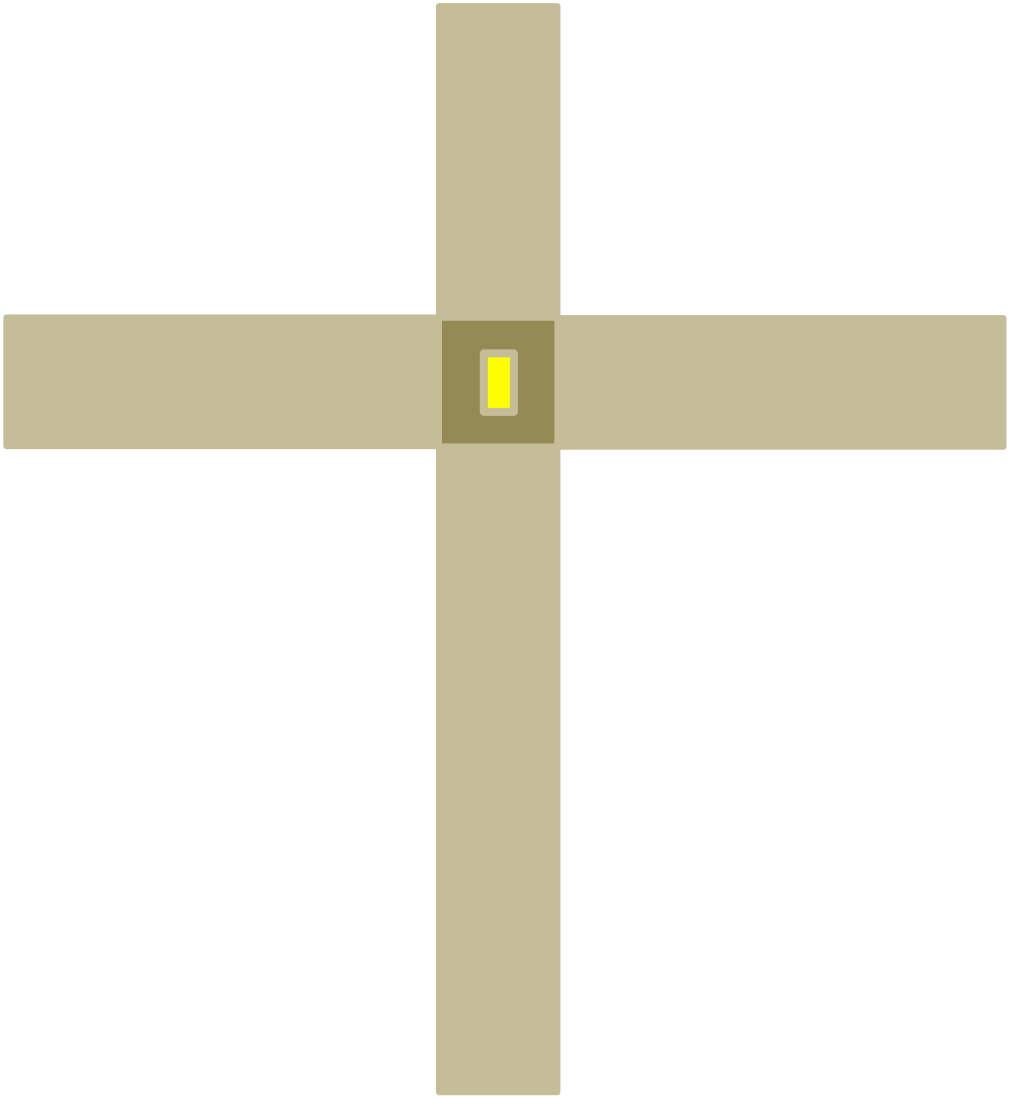
SW NW


Ephraim
108,100
Levites
Tabernacle
Reuben
151,450
Dan
157,600
Judah
186,400

SE NE


SW
108,100
NW
151,450
157,600
186,400
SE
NE

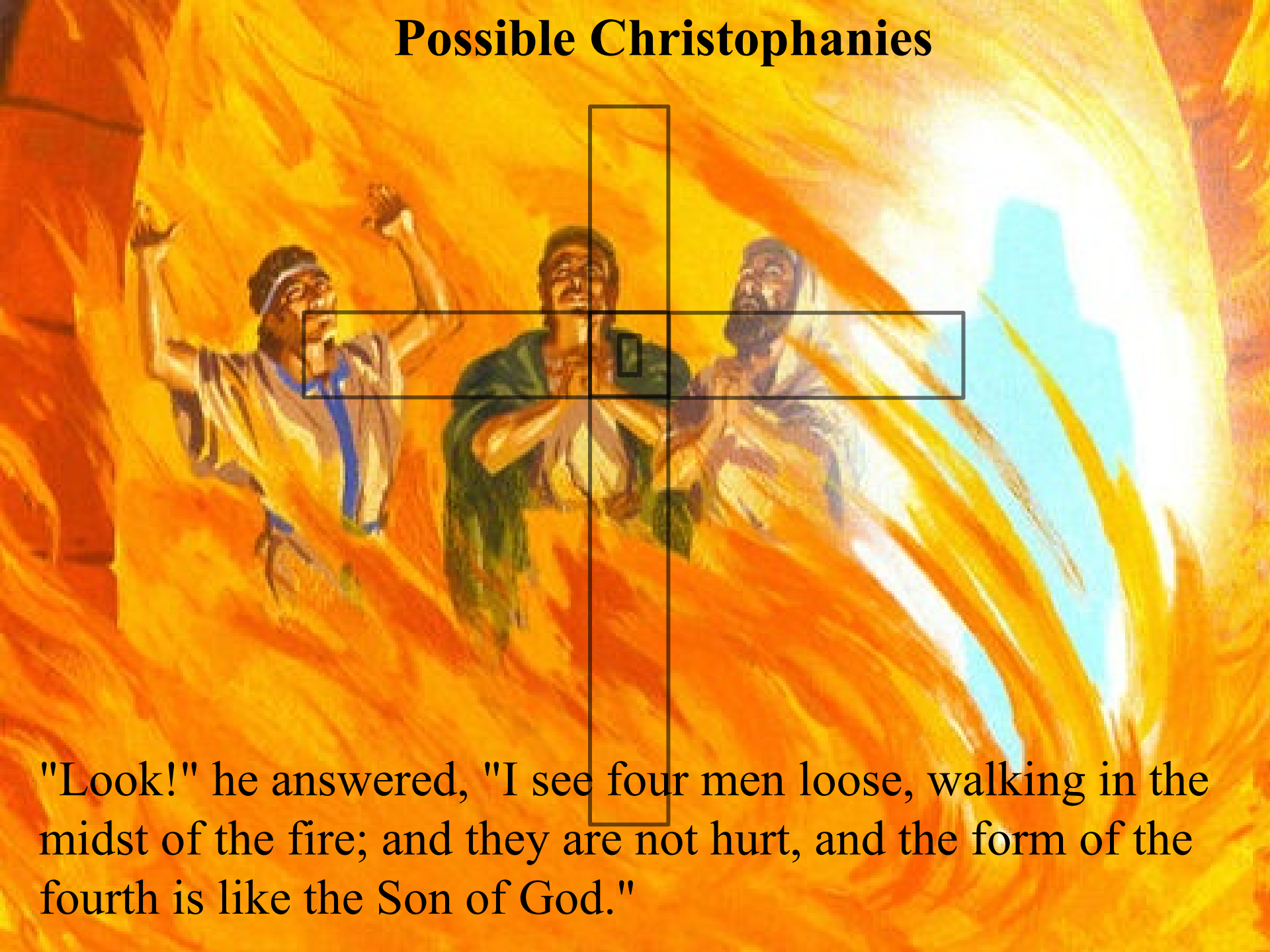
A Cross in the Old Testament



Messianic Prophecies

Just a few examples: descendent of Abraham, Isaac, Jacob, Judah, Jesse, David, out of Egypt I called My Son, teacher of parables, heal the blind, deaf, lame, dumb, born in Bethlehem, a messenger will prepare the way, will enter Jerusalem as a king riding on a donkey, betrayed by a friend, betrayed for 30 pieces of silver, betrayal money thrown down in temple & went to potter, remain silent while afflicted, hands and feet pierced, accused by false witnesses, struck, spit upon, mocked, bruised, wounded, numbered with the transgressors, forsaken by His disciples, garments parted and lots cast, stared upon, people shook their heads, friends stood afar off, suffered thirst, gall & vinegar offered to Him, bones not broken, pierced, darkness over land, buried in a rich man's tomb, The Bible accurately predicted the week Messiah would be "cut off " hundreds of years before it happened!

Possible Christophanies



"Look!" he answered, "I see four men loose, walking in the midst of the fire; and they are not hurt, and the form of the fourth is like the Son of God."

Types Foreshadowing Christ

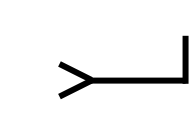
1. Joseph was uniquely loved by his father.
2. Joseph was rejected by his brothers.
3. Joseph was sold for silver.
4. Joseph was stripped of his clothing.
5. Joseph was bound.
6. Joseph became a slave because of the sin of his brothers.
7. Joseph was falsely accused.
8. Joseph was condemned with two criminal,
   one who was set free and one who got death.
9. Joseph was dead to his father then appeared alive.
10. Joseph saved his people from a certain death.

YHWH "Yahweh" meaning “I AM”

English Bible translates it to LORD

The name YHWH appears over
6500 times in the Old Testament.

YHWH (yod י, hey ה, vav ו, hey ה)



the hand



revealed



the nail



revealed

π and e in the Bible

This information came about as a joint effort involving four people from the UK:
Craig Paardekooper, Peter Bluer, Bevan Williams, Vernon Jenkins.

Two of the most important constants in the world of mathematics

$\pi = 3.14159265358979323846...$	BC	circles
$e = 2.71828182845904523536...$	AD	growth

$$e^{\pi i} = -1$$

The two "beginning" verses in the Bible

Genesis 1:1 = "In the beginning God created the heavens and the earth."	BC Moses	O.T. Hebrew
John 1:1 = "In the beginning was the Word, and the Word was with God, and the Word was God."	AD John	N.T. Greek

Hebrew Alphabet

Aleph	א	1
Bet	ב	2
Gimmel	ג	3
Dalet	ד	4
Hey	ה	5
Vav	ו	6
Zayin	ז	7
Chet	ח	8
Tet	ט	9
Yod	י	10
Kaf	כ, ך	20

Lamed	ל	30
Mem	מ, ם	40
Nun	נ, ן	50
Samekh	ס	60
Ayin	ע	70
Pey	פ, ף	80
Tsade	צ, ץ	90
Qof	ק	100
Resh	ר	200
Shin	ש	300
Tav	ת	400

Genesis 1:1	Hebrew	numeric values	sum
In the beginning	בראשית	400, 10, 300, 1, 200, 2	913
created	ברא	1, 200, 2	203
God	אלהים	40, 10, 5, 30, 1	86
the	את	400, 1	401
Heavens	השמים	40, 10, 40, 300, 5	395
and	ואת	400, 1, 6	407
Earth	הארץ	90, 200, 1, 5	296

$$\frac{(\text{number of letters})(\text{product of letters})}{(\text{number of words})(\text{product of words})} = \frac{(28)(23{,}887{,}872\times10^{27})}{(7)(304{,}153{,}525{,}784{,}175{,}760)}$$

absolute error < 0.00004 $\approx 3.141\,54508 \times 10^{17}$

Greek Alphabet

Alpha	Α	α	1
Beta	Β	β	2
Gamma	Γ	γ	3
Delta	Δ	δ	4
Epsilon	Ε	ε	5
Stigma	Ϛ	ϛ	6
Zeta	Ζ	ζ	7
Eta	Η	η	8
Theta	Θ	θ	9
Iota	Ι	ι	10
Kappa	Κ	κ	20
Lambda	Λ	λ	30
Mu	Μ	μ	40

Nu	Ν	ν	50
Xi	Ξ	ξ	60
Omicron	Ο	ο	70
Pi	Π	π	80
Koppa	Ϟ	ϟ	90
Rho	Ρ	ρ	100
Sigma	Σ	σ, ς	200
Tau	Τ	τ	300
Upsilon	Υ	υ	400
Phi	Φ	φ	500
Chi	Χ	χ	600
Psi	Ψ	ψ	700
Omega	Ω	ω	800
Sampi	Ϡ	ϡ	900

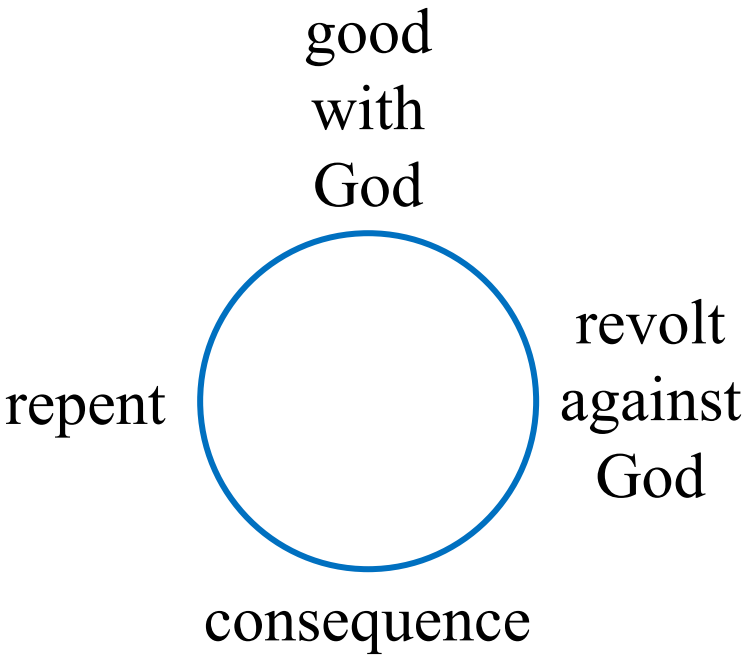
John 1:1	Greek	numeric values	sum
In	Εν	5, 50	55
beginning	αρχηι	1, 100, 600, 8, 10	719
was	ην	8, 50	58
the	ο	70	70
Word	λογος	30, 70, 3, 70, 200	373
and	και	20, 1, 10	31
the	ο	70	70
Word	λογος	30, 70, 3, 70, 200	373
was	ην	8, 50	58
with	προς	80, 100, 70, 200	450
(the)	τον	300, 70, 50	420
God	θεον	9, 5, 70, 50	134
and	και	20, 1, 10	31
God	θεος	9, 5, 70, 200	284
was	ην	8, 50	58
the	ο	70	70
Word	λογος	30, 70, 3, 70, 200	373

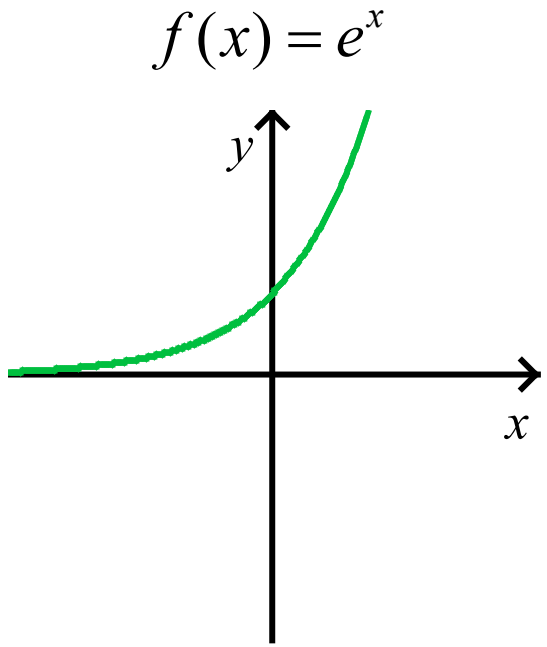
$$\frac{(\text{number of letters})(\text{product of letters})}{(\text{number of words})(\text{product of words})} = \frac{(52)(8{,}436{,}251{,}456{,}259{,}110{,}830{,}080\times10^{54})}{(17)(949{,}302{,}241{,}399{,}839{,}184{,}297{,}857{,}869{,}760\times10^{6})}$$

absolute error < 0.00004 $\approx 2.718312812 \times 10^{40}$

$\pi \leftrightarrow$ Genesis 1:1

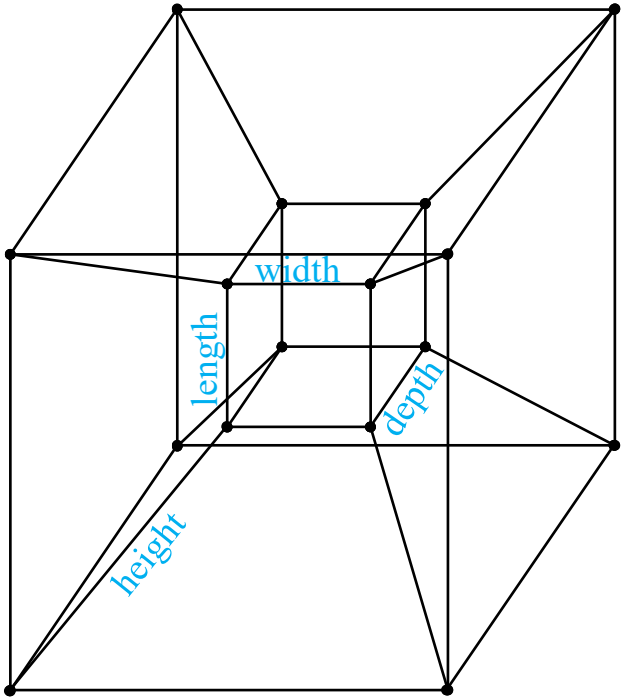
$e \leftrightarrow$ John 1:1





I AM my own derivative.

“Theorems” of Christianity



Theorem 1: All have sinned.
-Romans 3:23

Theorem 2: The wages of sin is death.
-Romans 6:23

Theorem 3: Jesus died for our sins and rose from the dead.
-1st Corinthians 15:3-4

Theorem 4: Whoever believes in Jesus will not perish but have everlasting life.
-John 3:16


GOOD WORKS

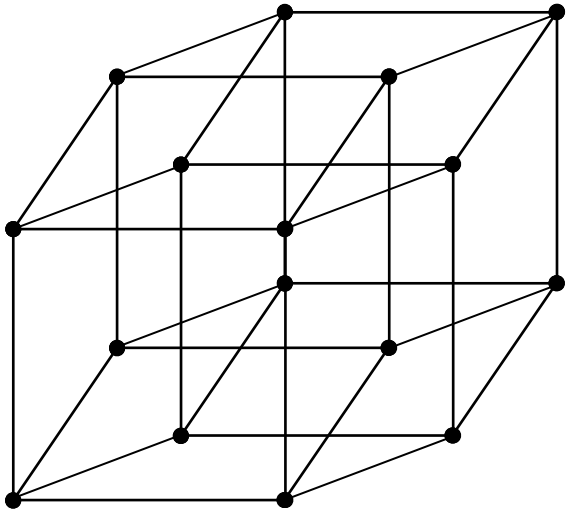




The Lord…is longsuffering toward us, not willing that any should perish but that all should come to repentance.

-2nd Peter 3:9

"Theorems" of Christianity



Theorem 1: All have sinned.
-Romans 3:23

Theorem 2: The wages of sin is death.
-Romans 6:23

Theorem 3: Jesus died for our sins and rose from the dead.
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Theorem 4: Whoever believes in Jesus will not perish but have everlasting life.
-John 3:16

"Stop doubting and believe." – John 20:27

Math & the Bible

Through The Bible: Chuck Smith
J. Vernon McGee
Skip Heitzig

Pick a gospel and start listening!

links and handouts found at bottom of:
www.joevasta.com

To God be the glory.