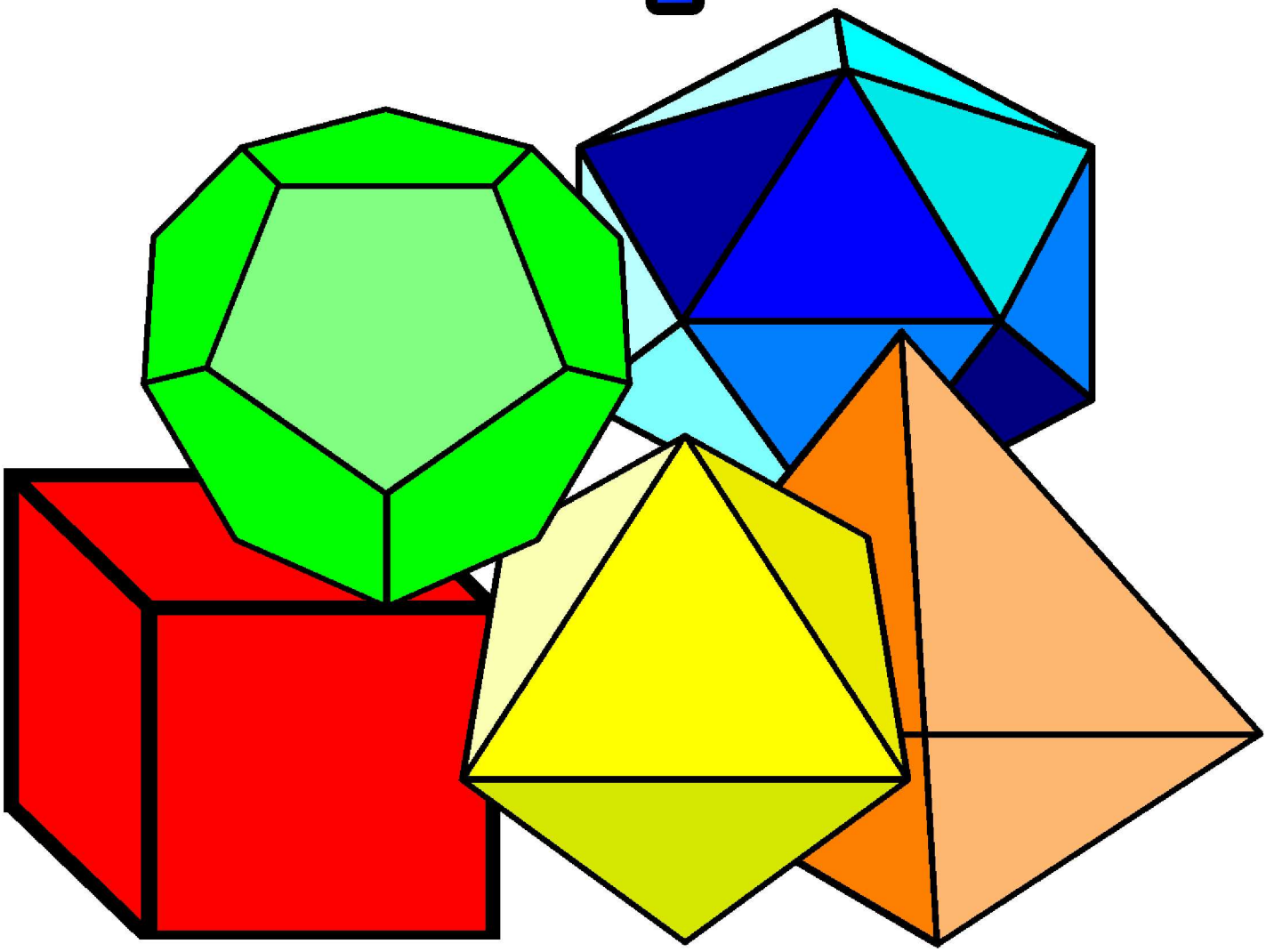
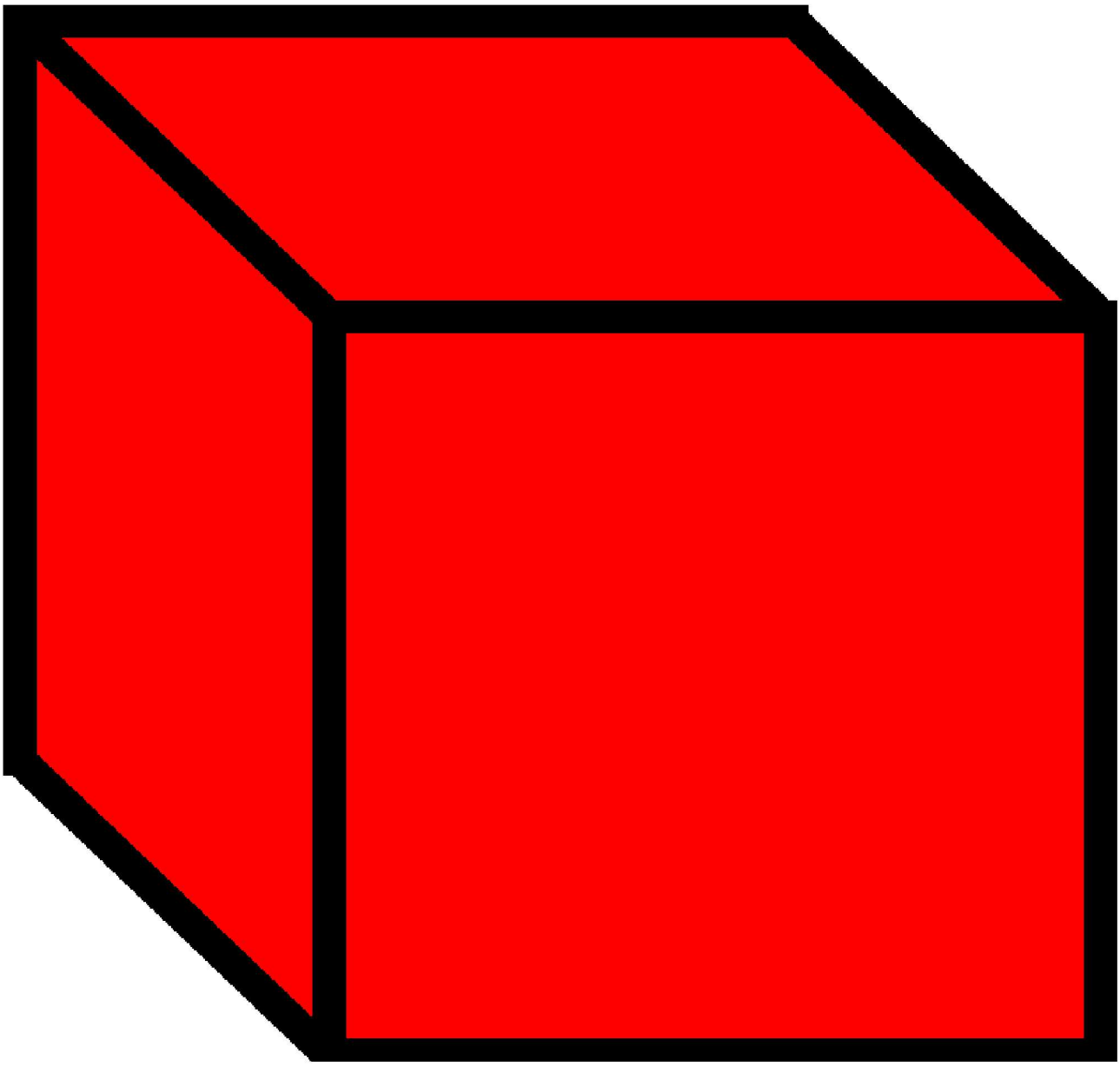
Properties of 3D Shapes



cube



six faces

six square faces

eight vertices

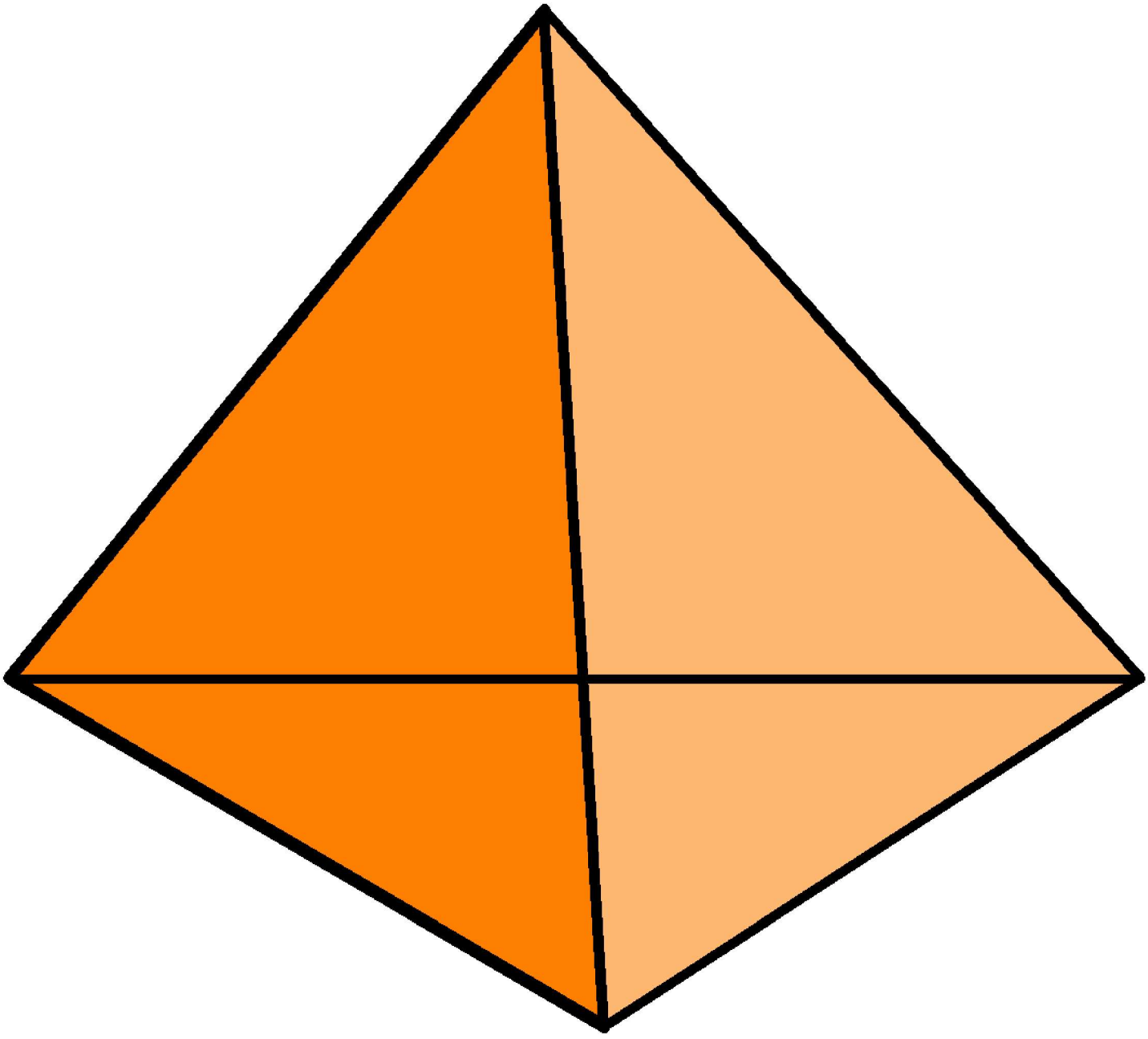
twelve edges

dihedral angles: 90°

platonic solid

eight corners

tetrahedron



four
faces

four
equilateral
triangle faces

four
vertices

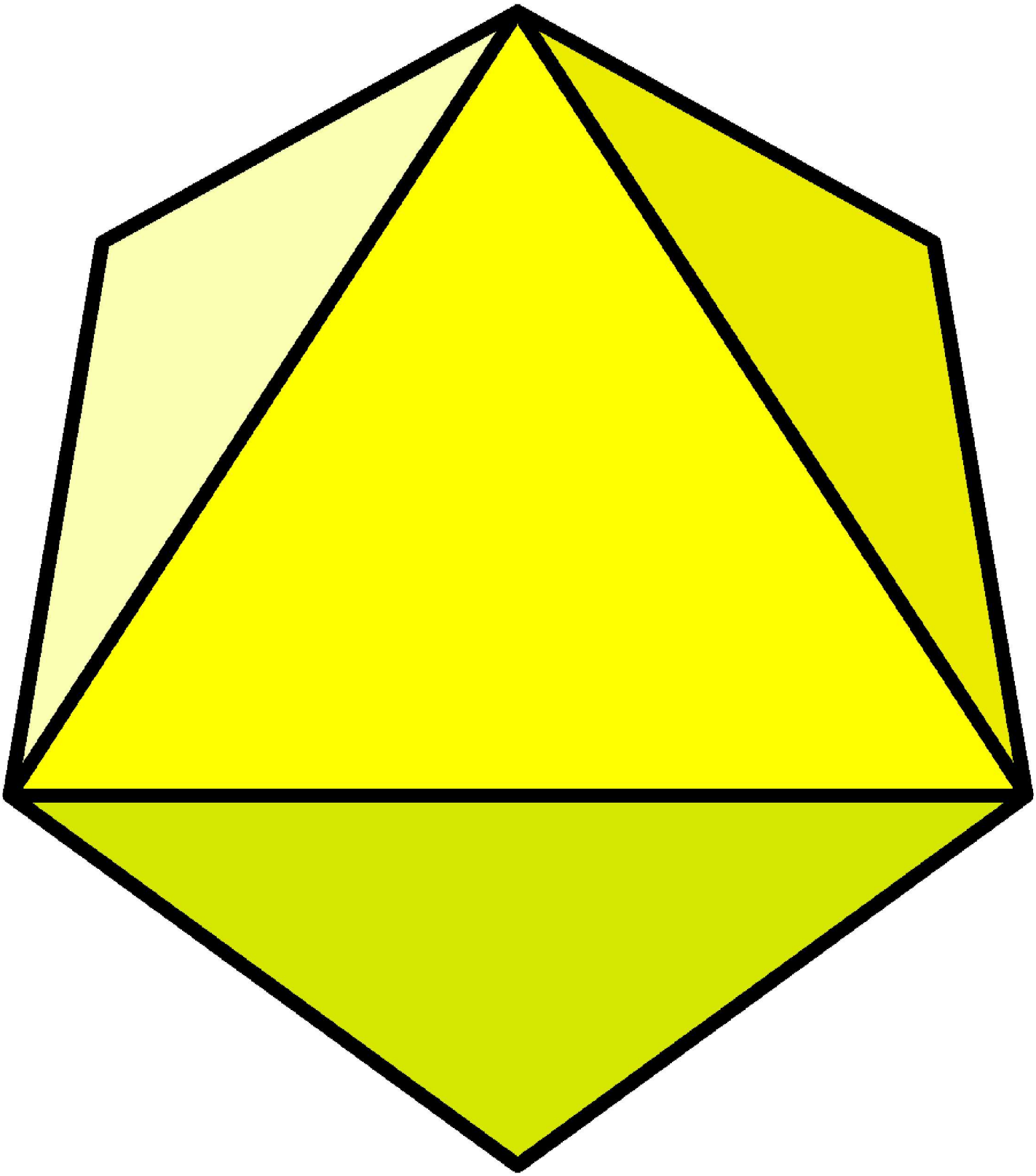
six
edges

dihedral
angles: 72°
32 minutes

platonic
solid

four
corners

octahedron



eight
faces

eight
equilateral
triangle faces

six
vertices

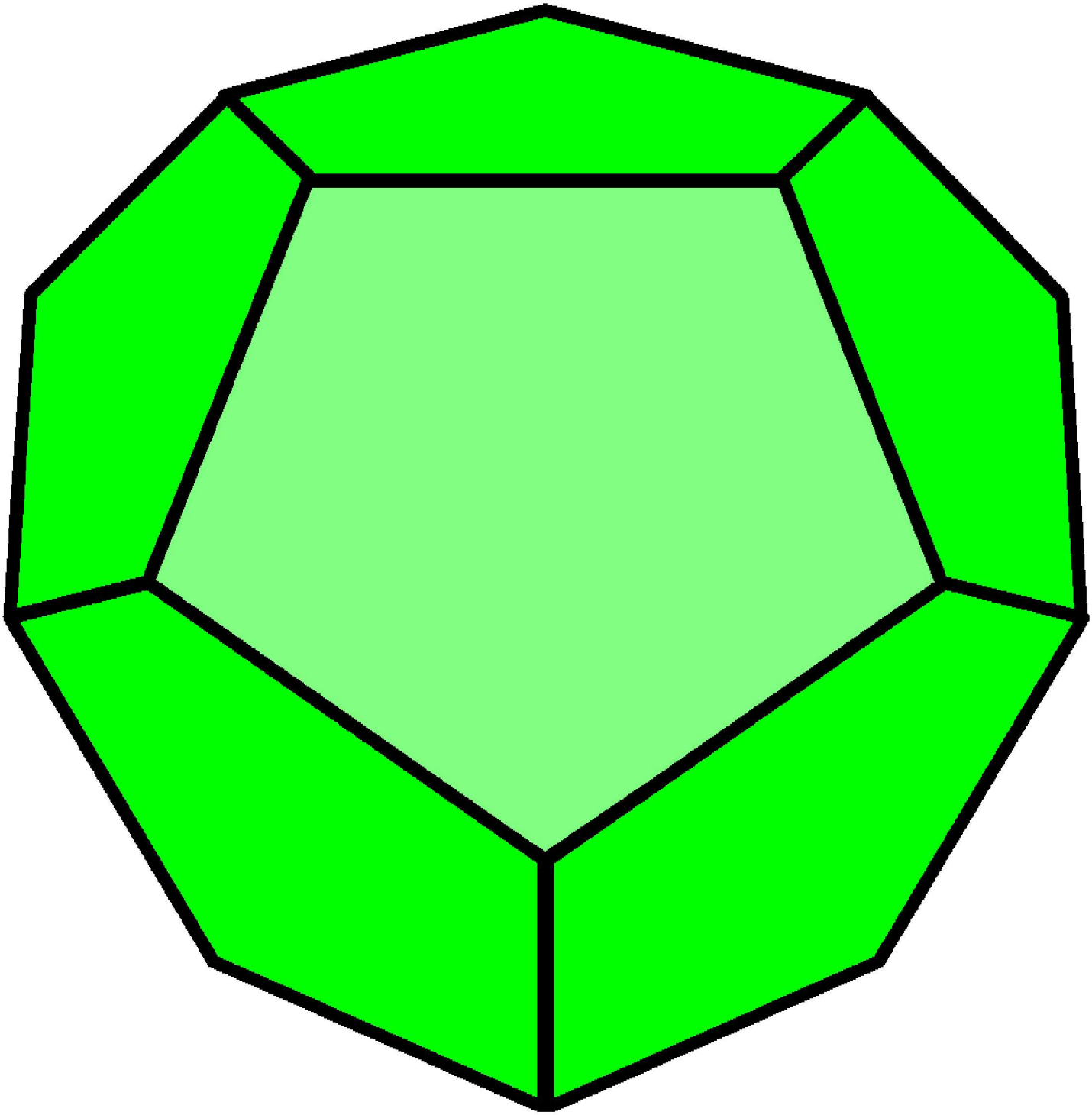
twelve
edges

dihedral
angles: 109°
28 minutes

platonic
solid

six
corners

dodecahedron



twelve faces

twelve regular pentagon faces

twenty vertices

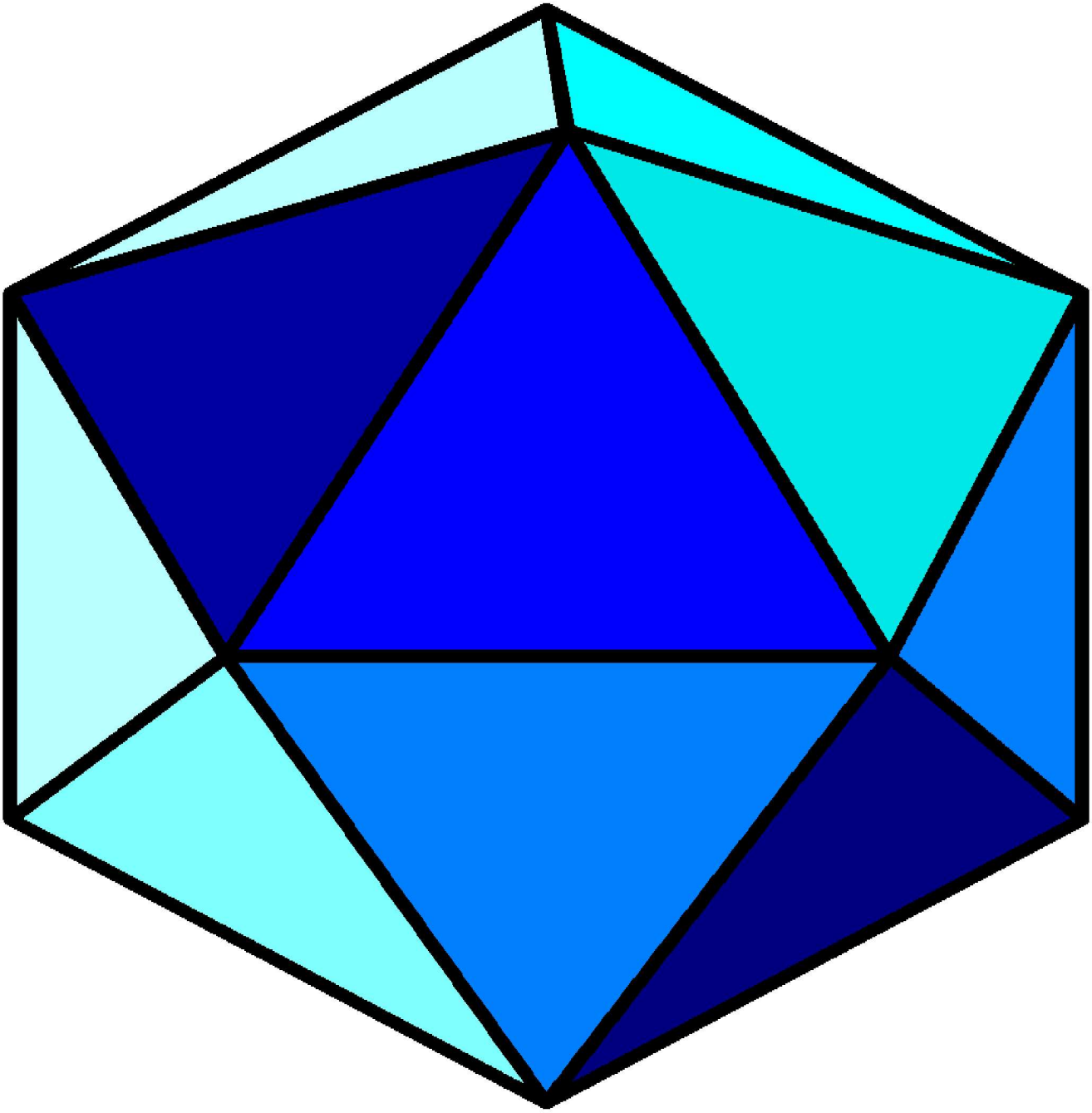
thirty edges

dihedral angles: 116° 34 minutes

platonic solid

twenty corners

icosahedron



twenty faces

twenty equilateral triangle faces

twelve vertices

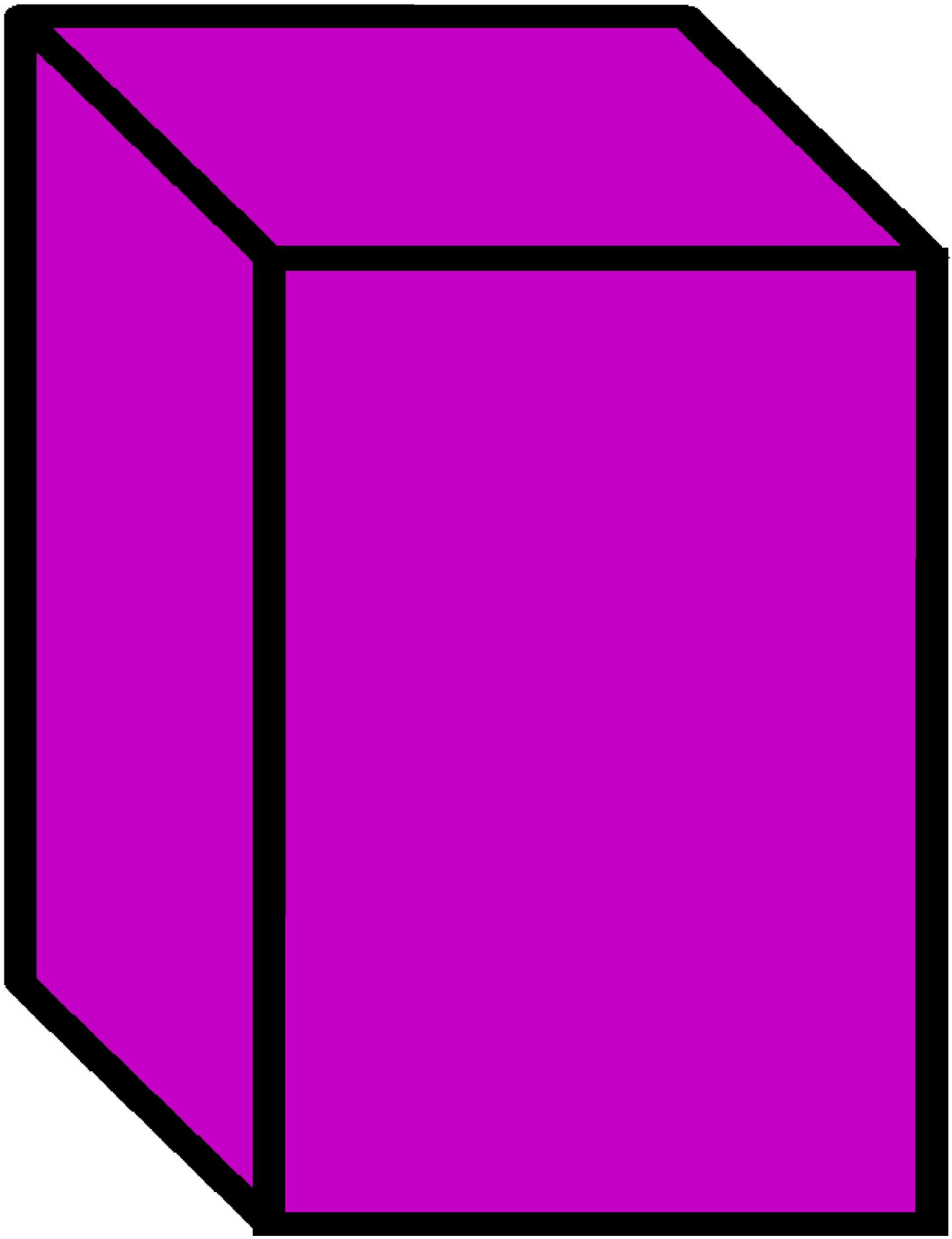
thirty edges

dihedral angles: 138° 11 minutes

platonic solid

twelve corners

cuboid



six faces

six faces: rectangular

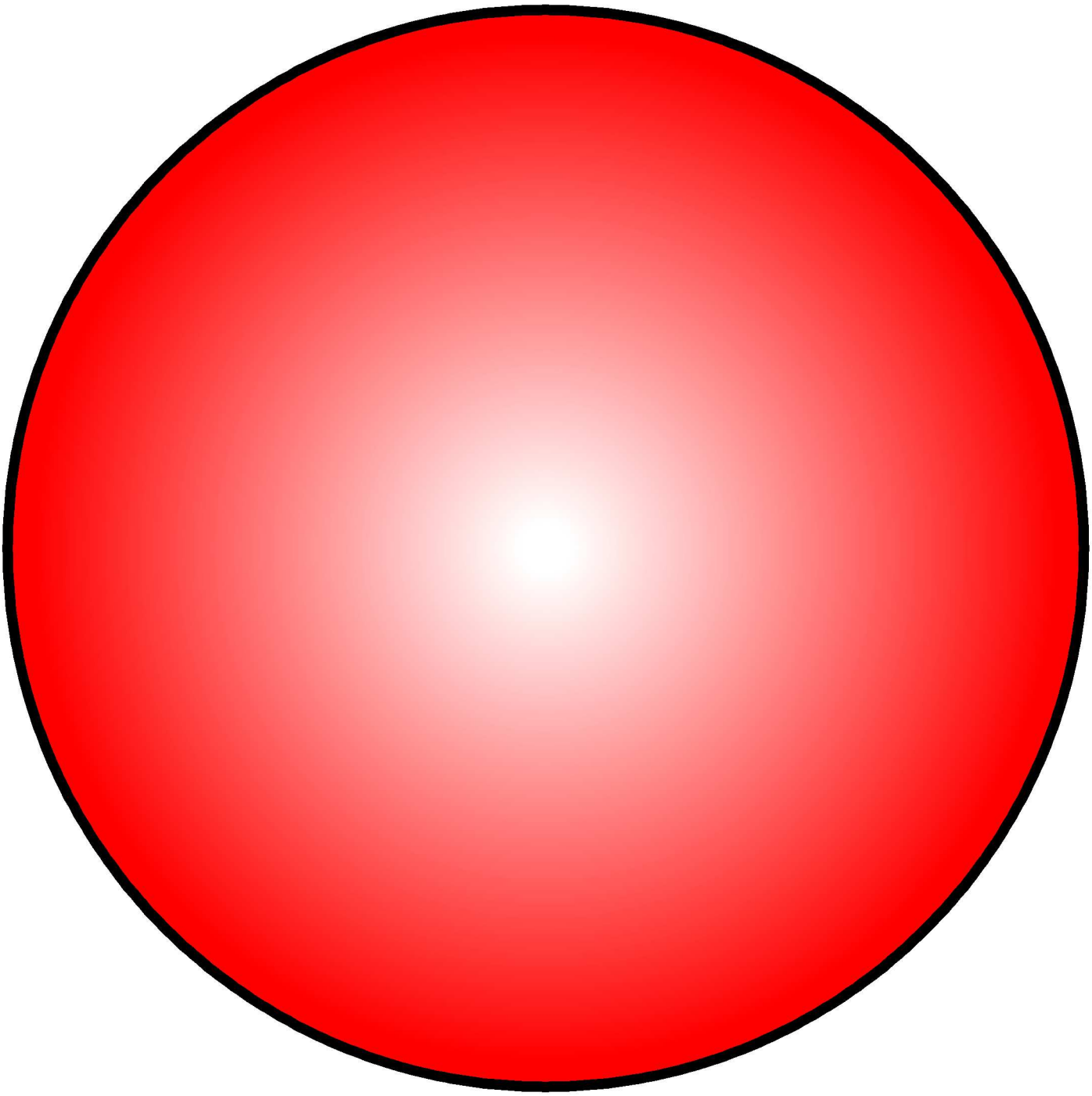
eight vertices

twelve edges

faces joined at 90° angle

eight corners

sphere



one face

all points on its surface at equal distance from centre

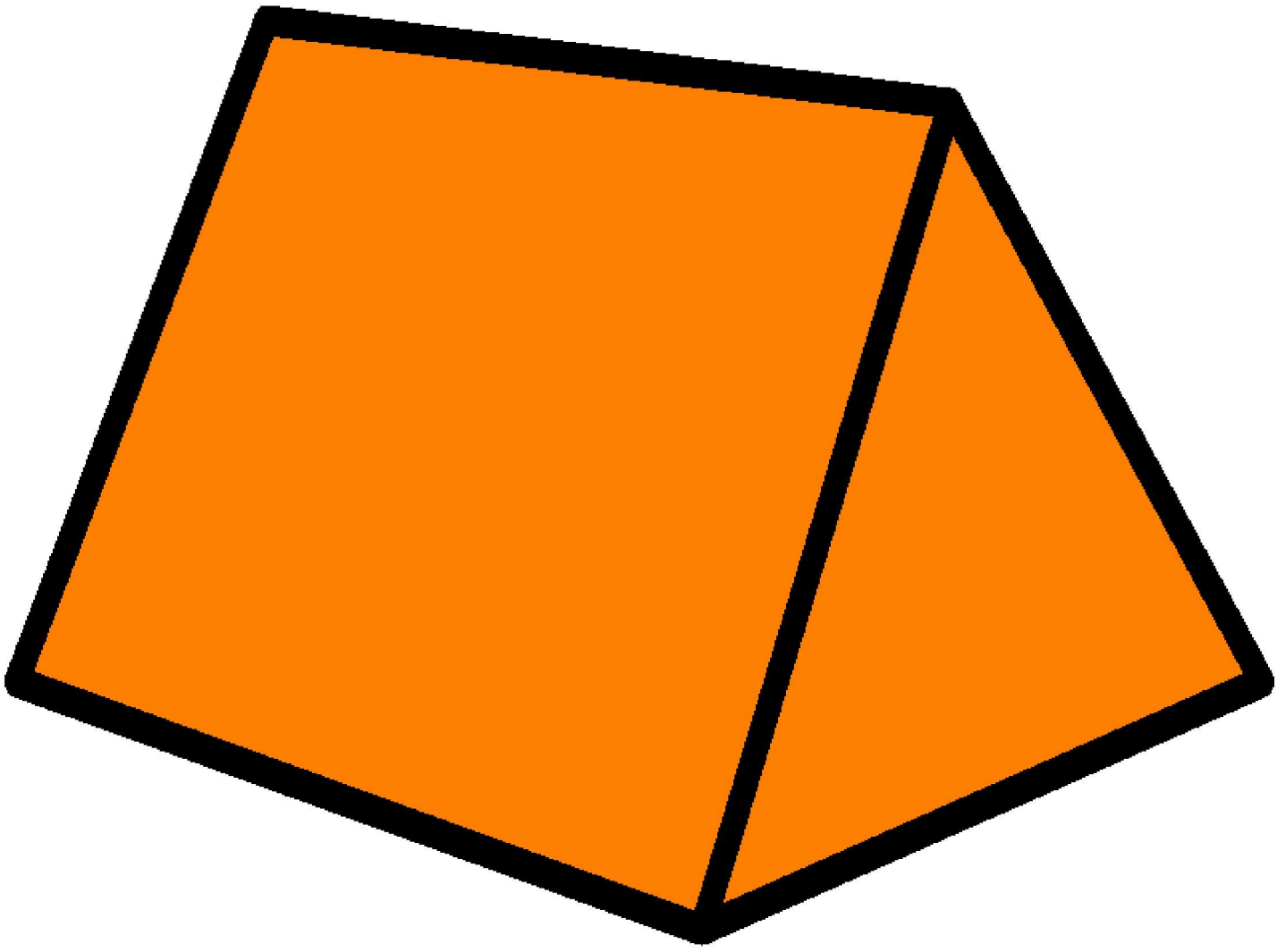
all points on its surface at equal distance from center

no vertices

no edges

no corners

triangular prism



five faces

three faces: rectangles

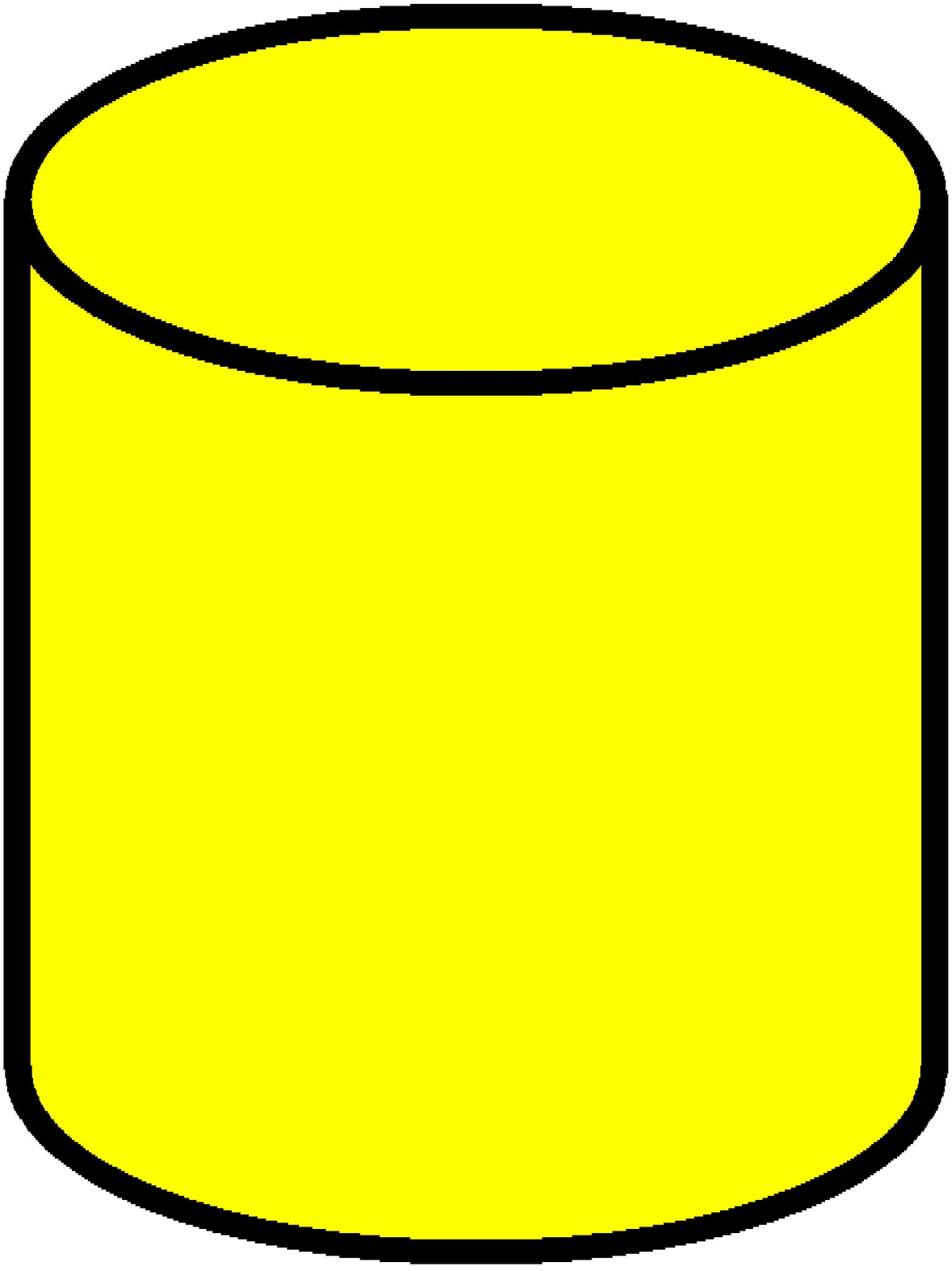
two faces: triangles

nine edges

six vertices

six corners

cylinder



three faces

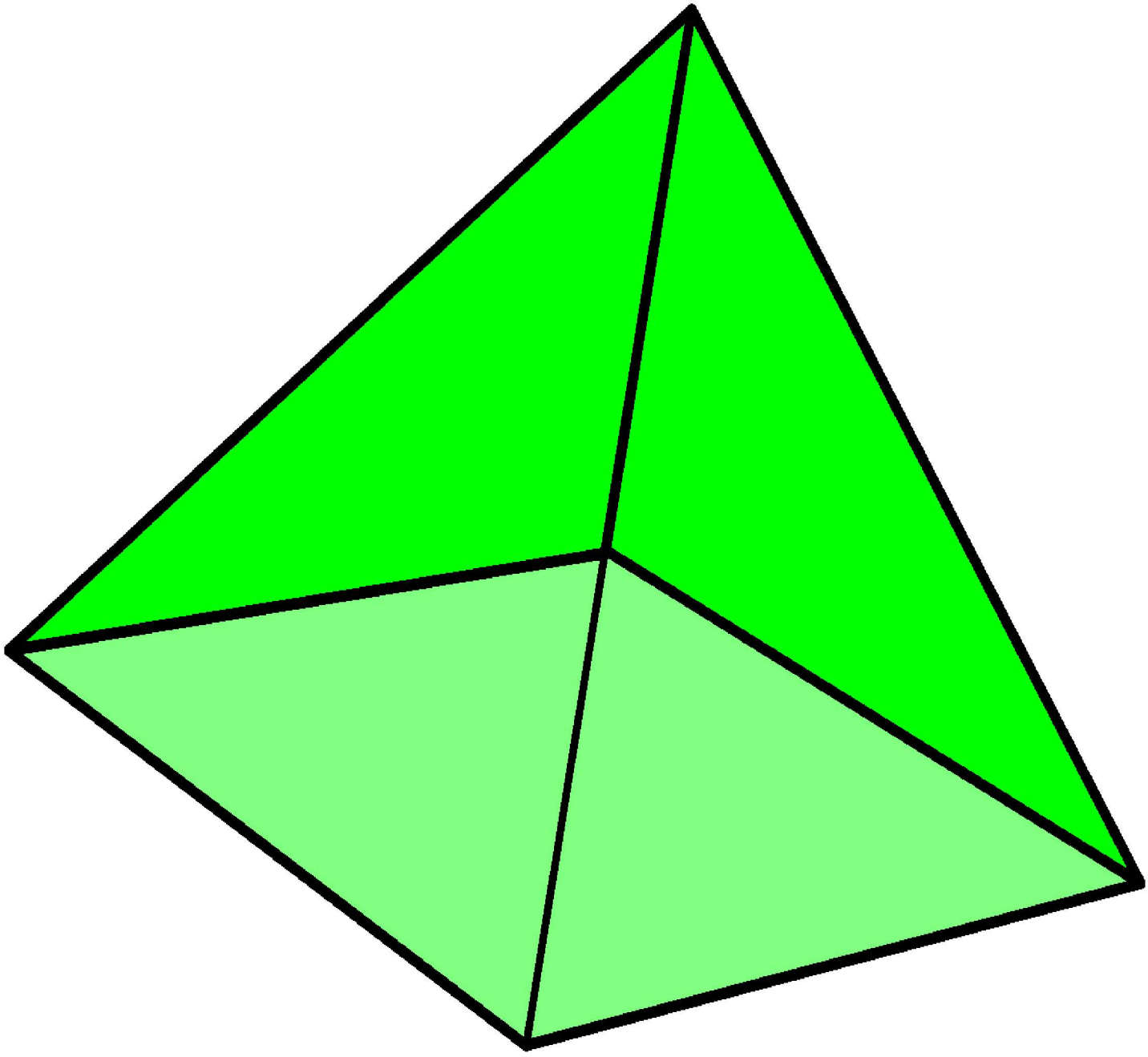
two circular faces

two edges

no vertices

no corners

pyramid



five
faces

four
triangular
faces

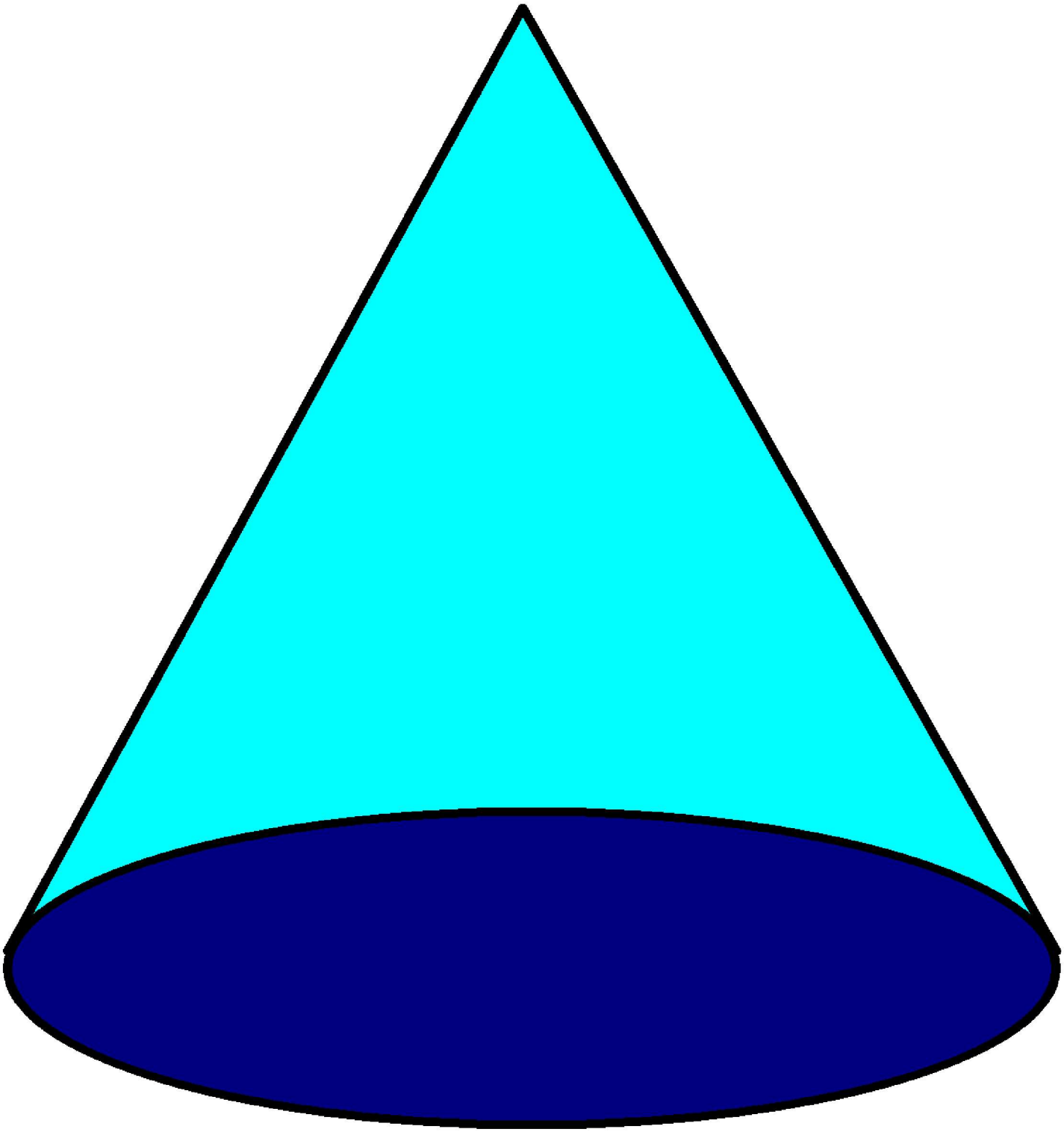
eight
edges

five
vertices

five
corners

one
rectangular or
square face

cone



two
faces

one
circular or
oval face

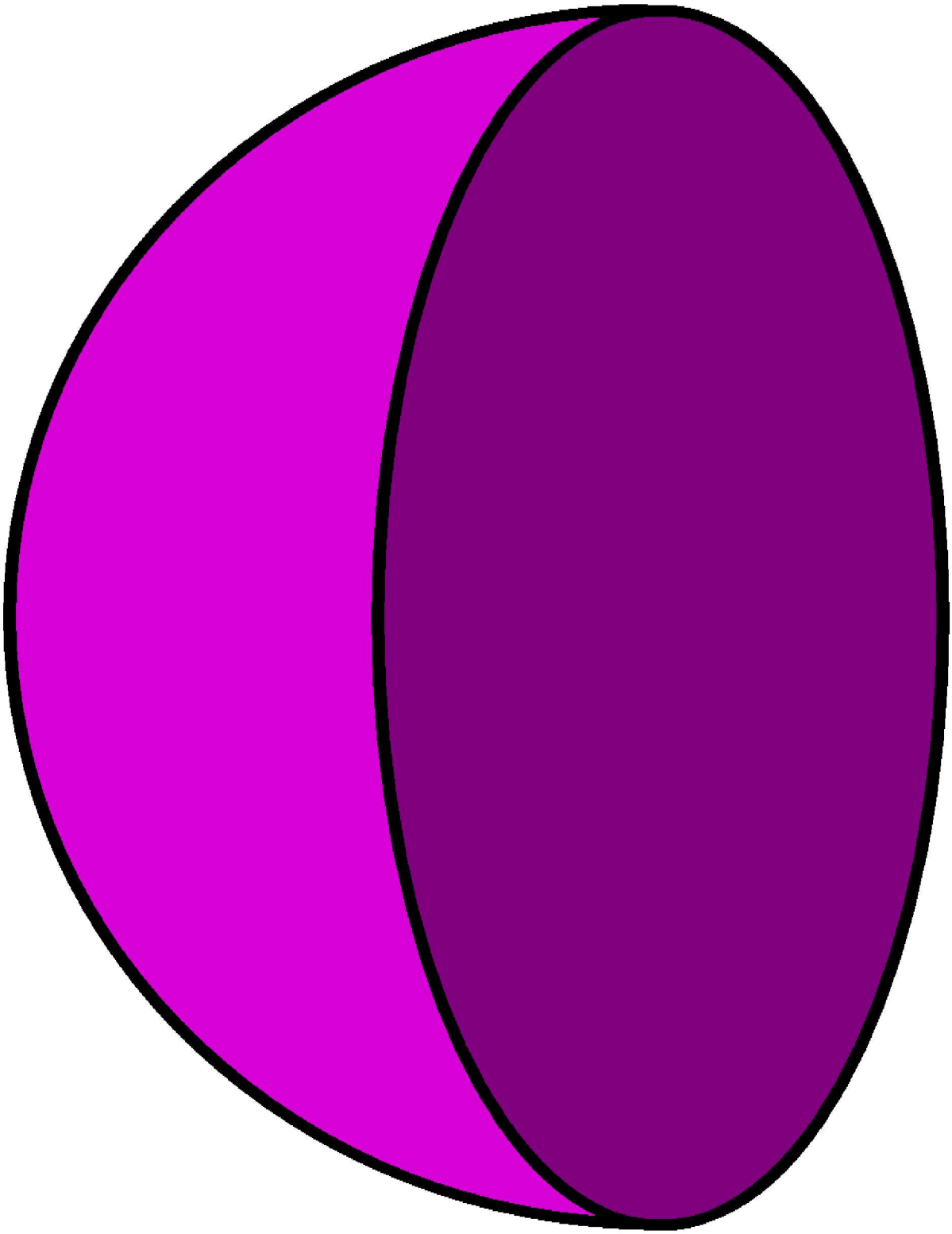
one
edge

one
vertex

one
corner

a pyramid
with a circular
base

hemi-sphere



two
faces

one
circular face

one
edge

no
vertices

no
corners

half a
sphere