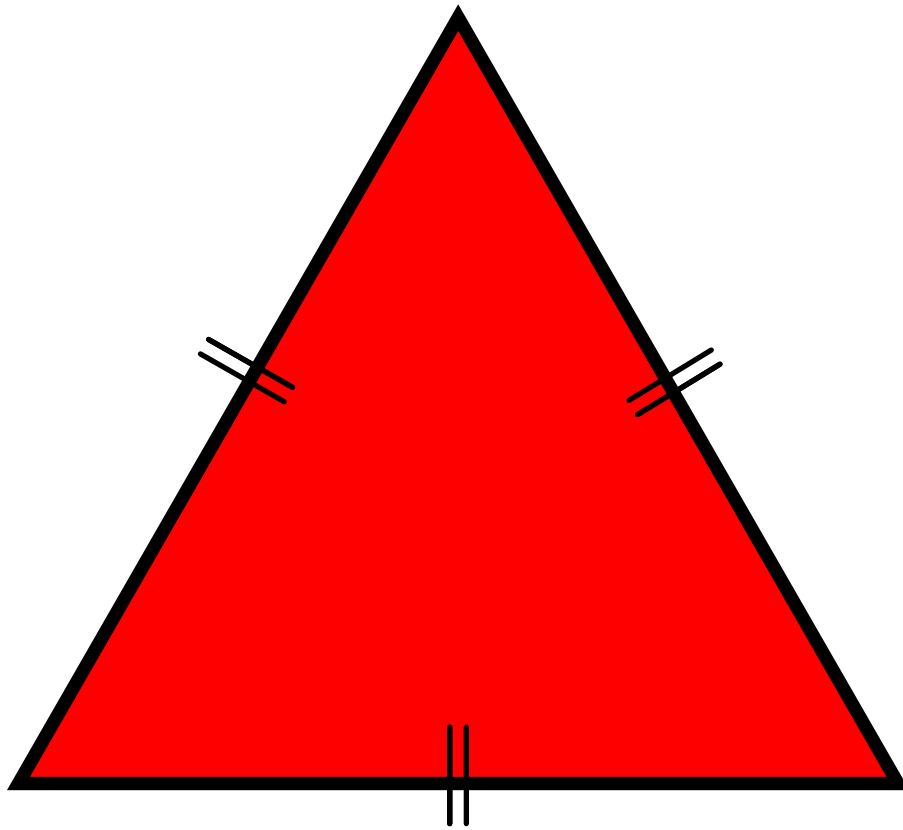# 2D Shapes

Equilateral triangle

A triangle with 3 straight sides, all the same length.
All 3 angles are the same size.
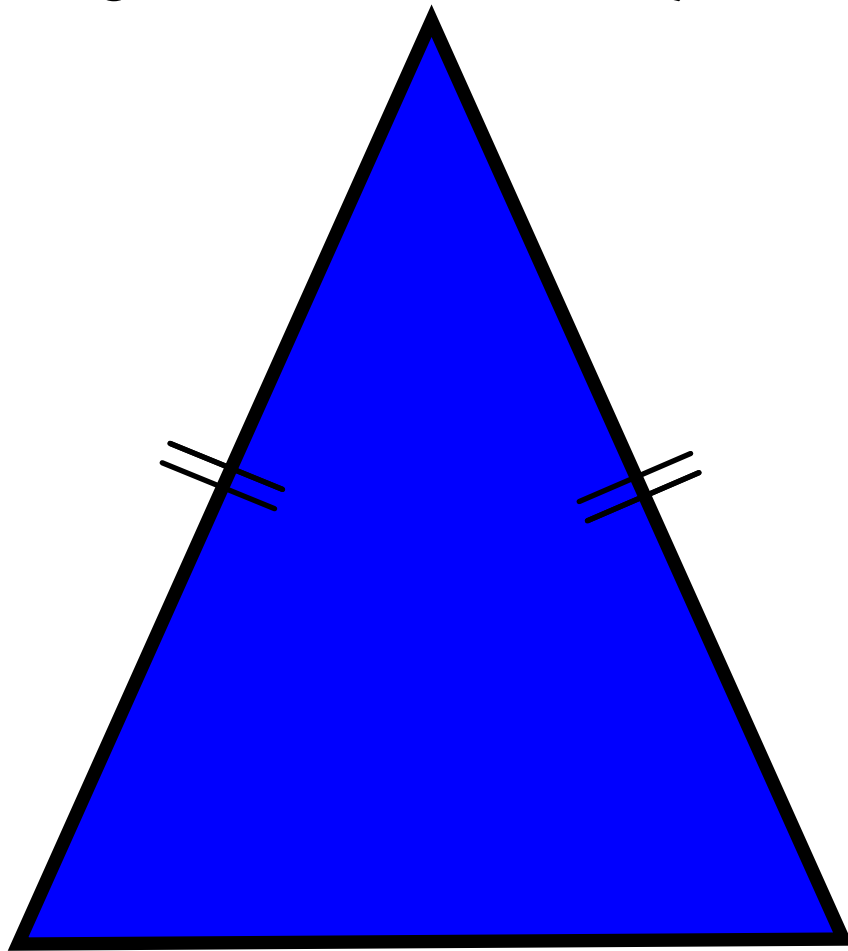

Lines of symmetry?
Three

Rotational symmetry?
Order 3

2D Shapes

Isosceles triangle

A triangle with 2 sides the same length and two equal angles.
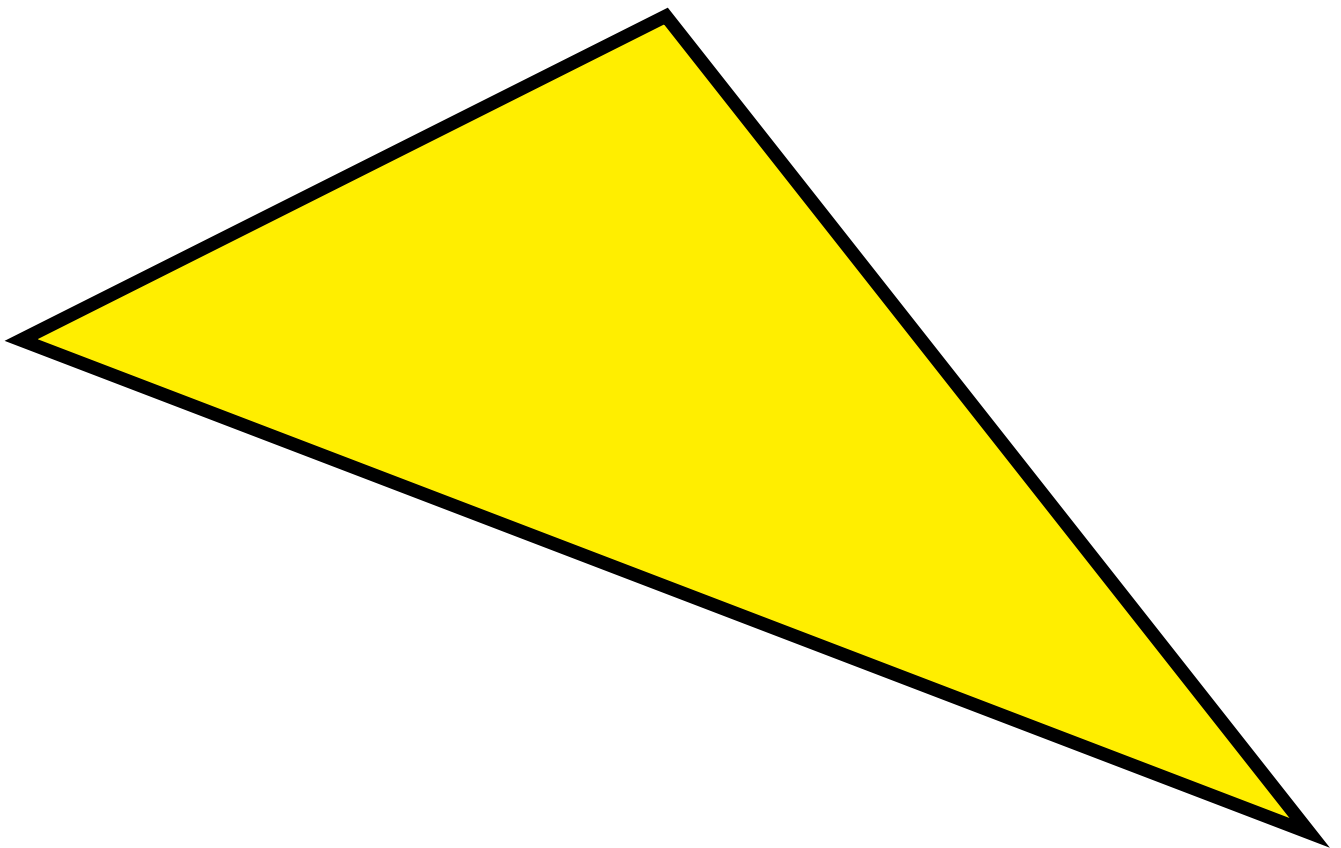

Lines of symmetry?
One

Rotational symmetry?
None

Scalene triangle

A triangle with 3 different-length sides and 3 different angles.
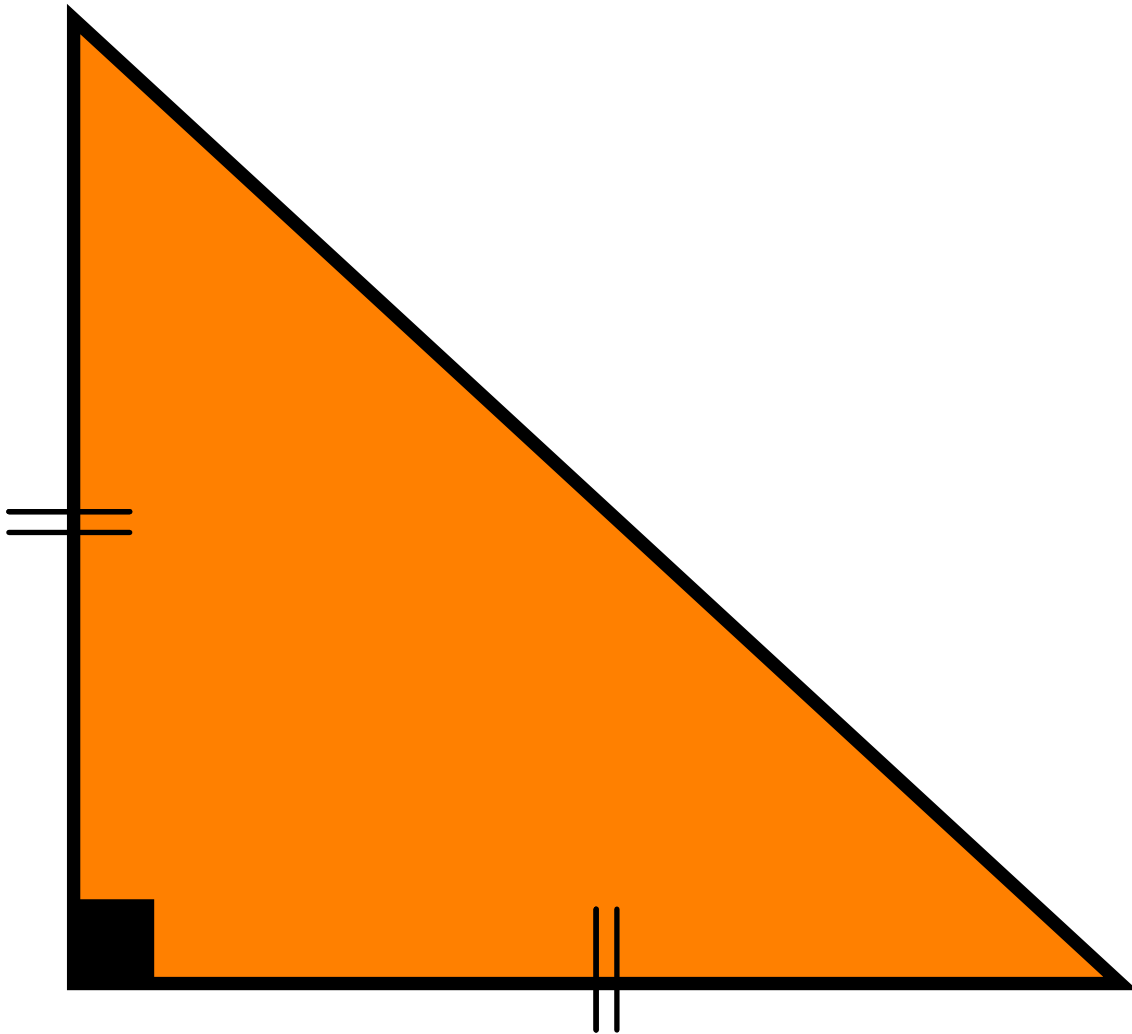

Lines of symmetry?
None

Rotational symmetry?
None

2D Shapes

Right-angled triangle

A triangle with one right-angle.

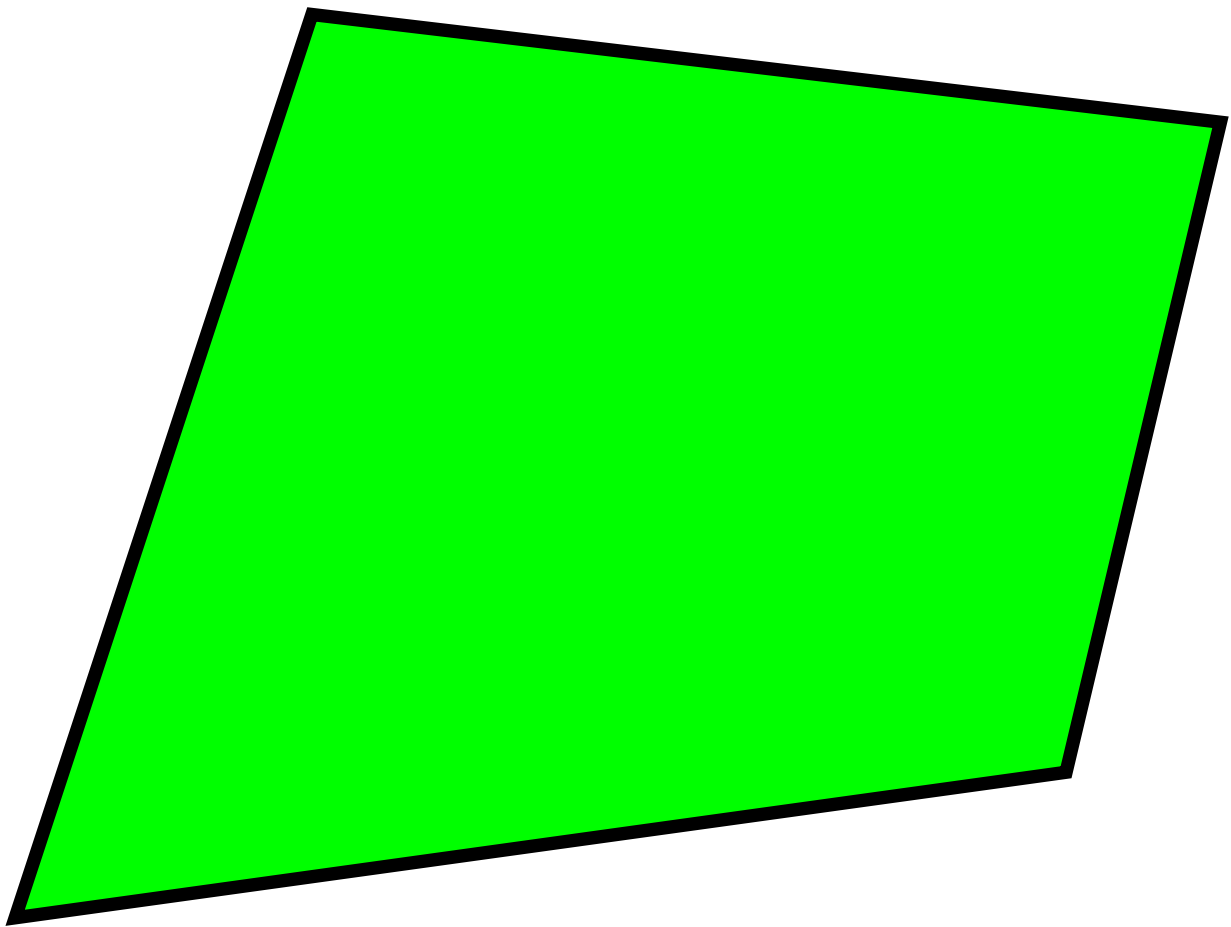**Lines of symmetry?**

If it is an isosceles triangle, it has one.

Rotational symmetry?

None

2D Shapes

Quadrilateral

A shape with 4 straight sides.

Some well-known quadrilaterals:
square, rectangle, parallelogram, kite, trapezium, rhombus

2D Shapes

Rectangle

A quadrilateral with 4 right-angles and opposite sides the same length.

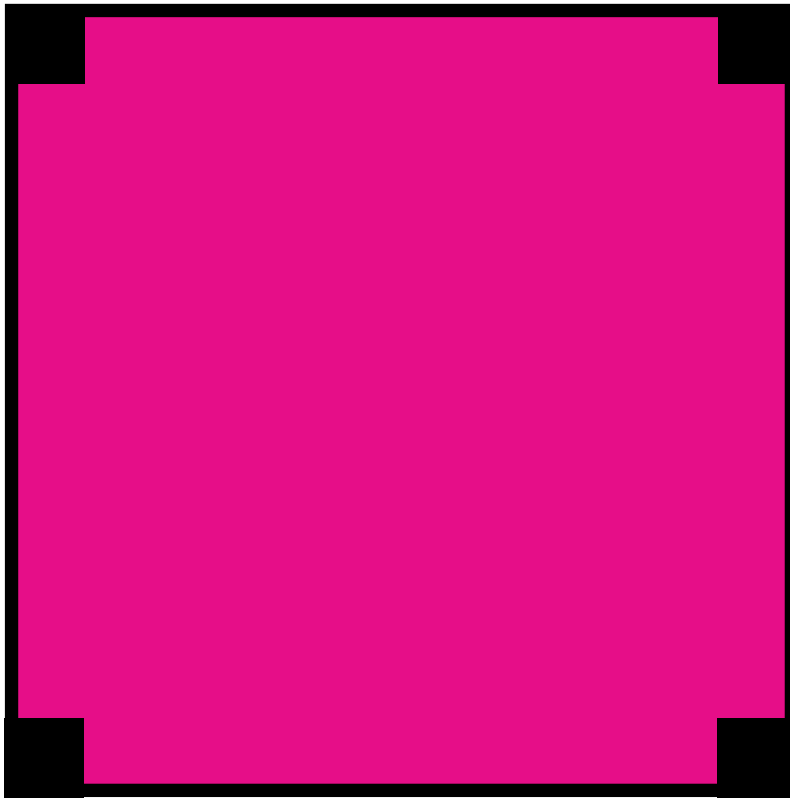**Lines of symmetry?**

Two (except when it is a square)

Rotational symmetry?

Order 2 (except when it is a square)

2D Shapes

Square

A quadrilateral with 4 equal-length sides and 4 right-angles.

A square is also a **rectangle**, **parallelogram** and **rhombus**.
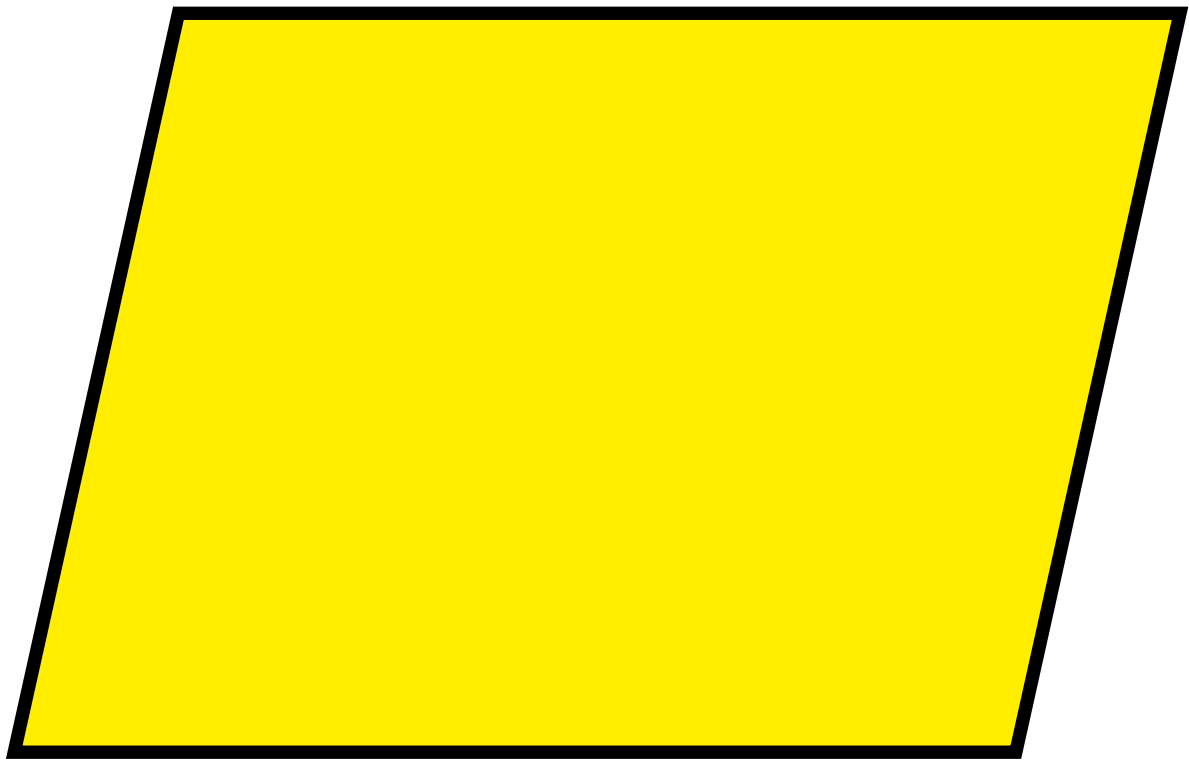
Lines of symmetry?
Four

Rotational symmetry?
Order 4

2D Shapes

Parallelogram

A quadrilateral with parallel opposite sides that are the same length.

Lines of symmetry?
Only when it is a rectangle or rhombus

Rotational symmetry?
Order 2

2D Shapes

Oblong

Any rectangle that is not a square.

An oblong is also a type of **parallelogram**.
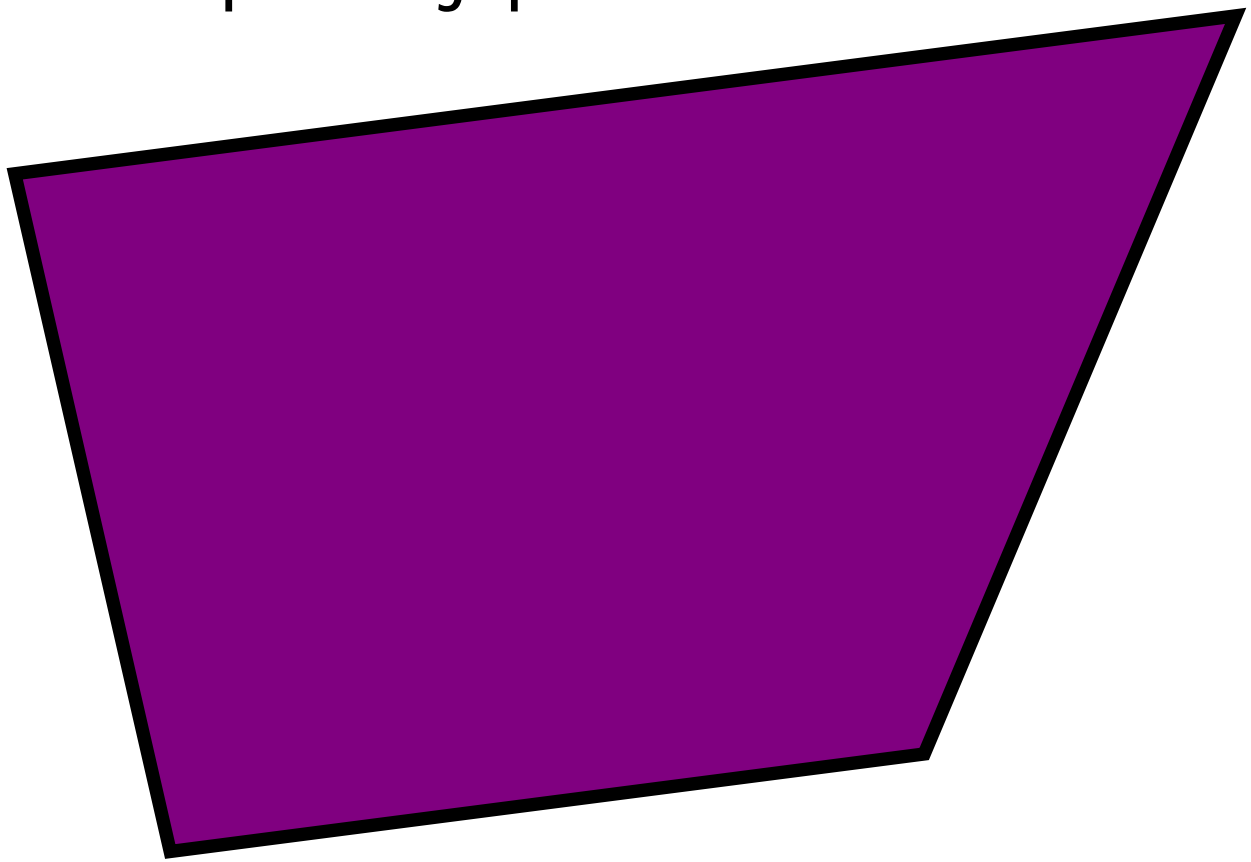
Lines of symmetry?
Two

Rotational symmetry?
Order 2

2D Shapes

Trapezium

A quadrilateral with only one pair of parallel sides.

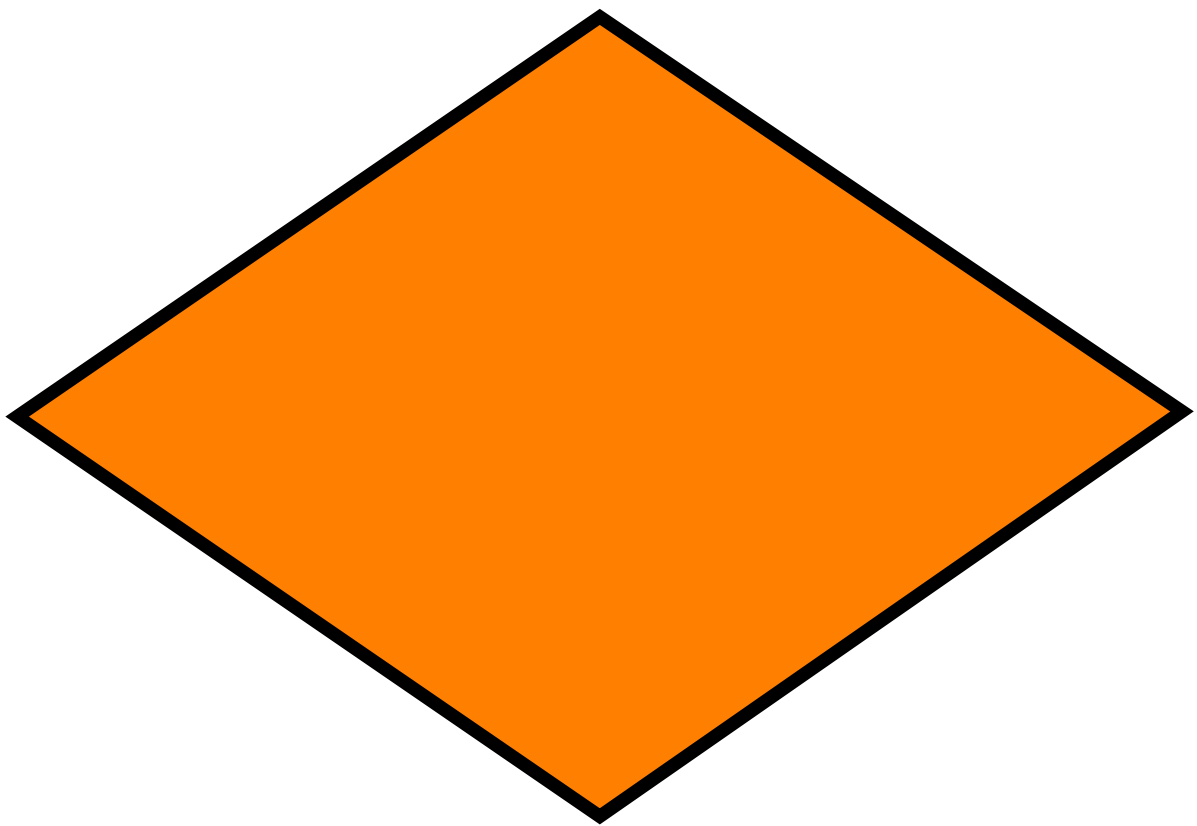**Lines of symmetry?**
Only if it is an isosceles trapezium.

Rotational symmetry?
None

Rhombus

A quadrilateral with
4 equal-length sides.

A rhombus is also a type of **parallelogram**.
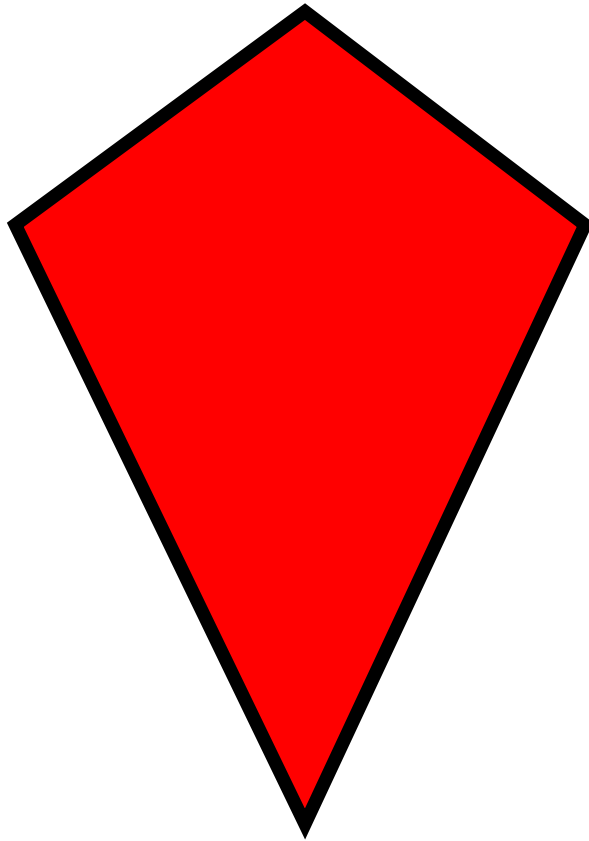
Lines of symmetry?

Two

Rotational symmetry?

Order 2

2D Shapes

Kite

A quadrilateral with 2 pairs of adjacent sides that are equal in length.
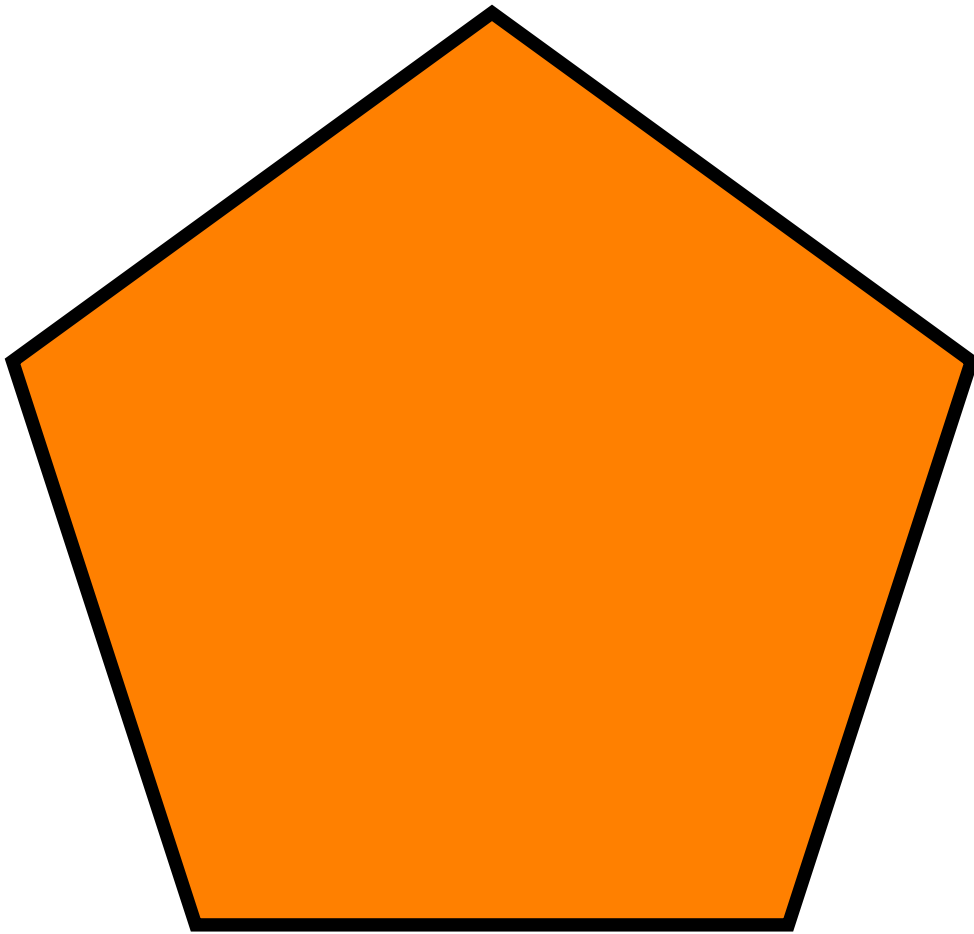
Lines of symmetry?
One

Rotational symmetry?
None

2D Shapes

Regular pentagon

A shape with 5 equal-length sides and 5 equal angles.
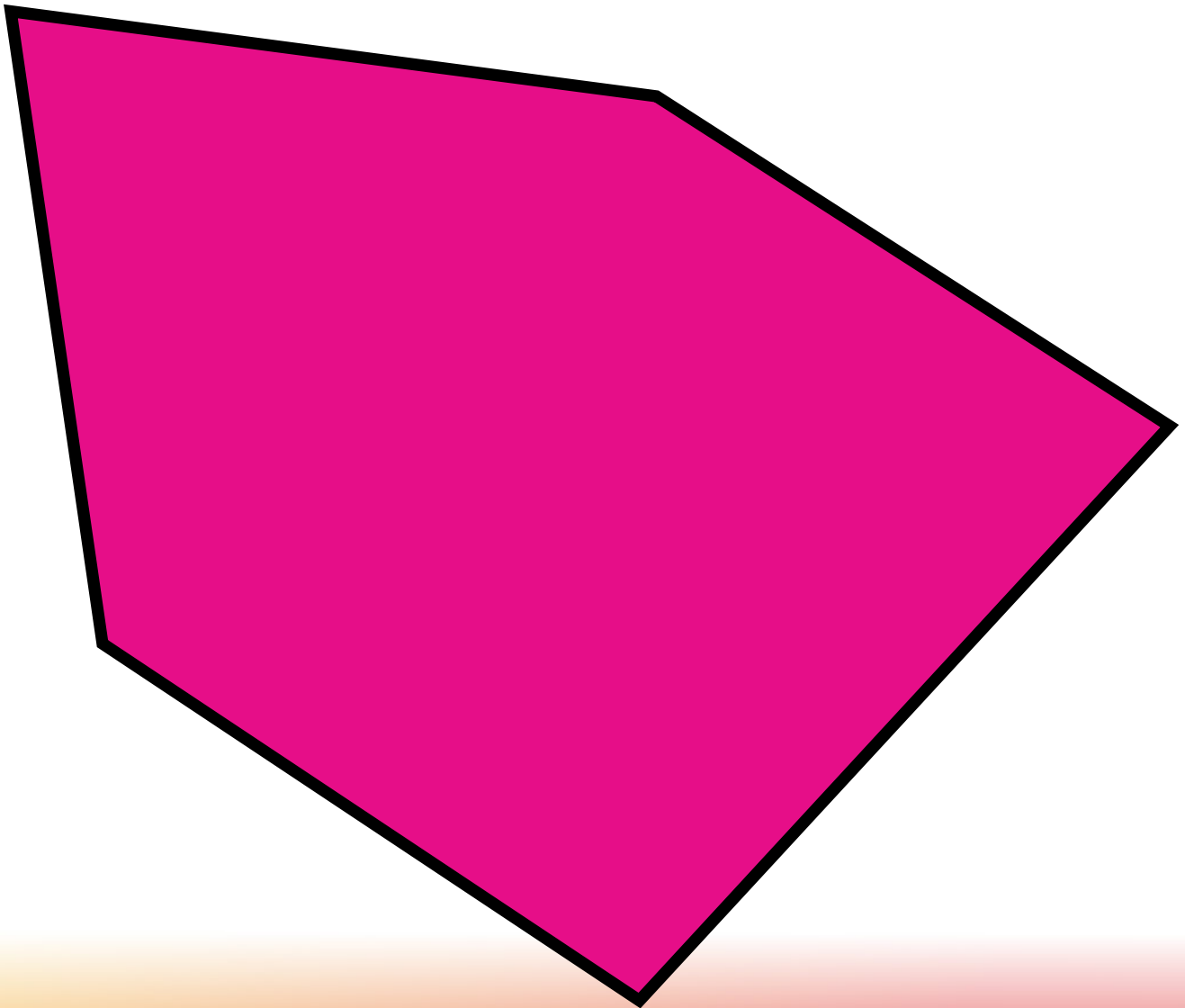
Lines of symmetry?

Five

Rotational symmetry?
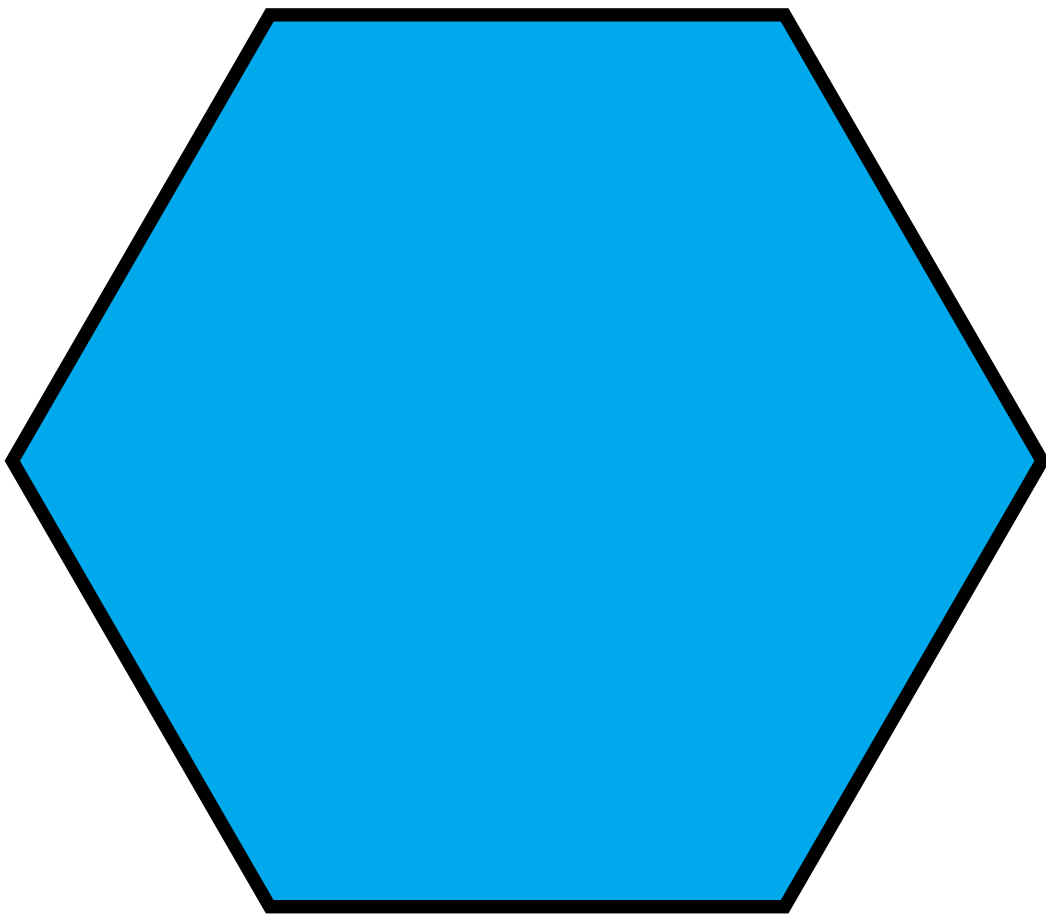
Order 5

2D Shapes

Irregular pentagon
A shape with 5 straight sides, one or more of different lengths.

2D Shapes

Regular hexagon

A shape with 6 equal-length sides and 6 equal angles.
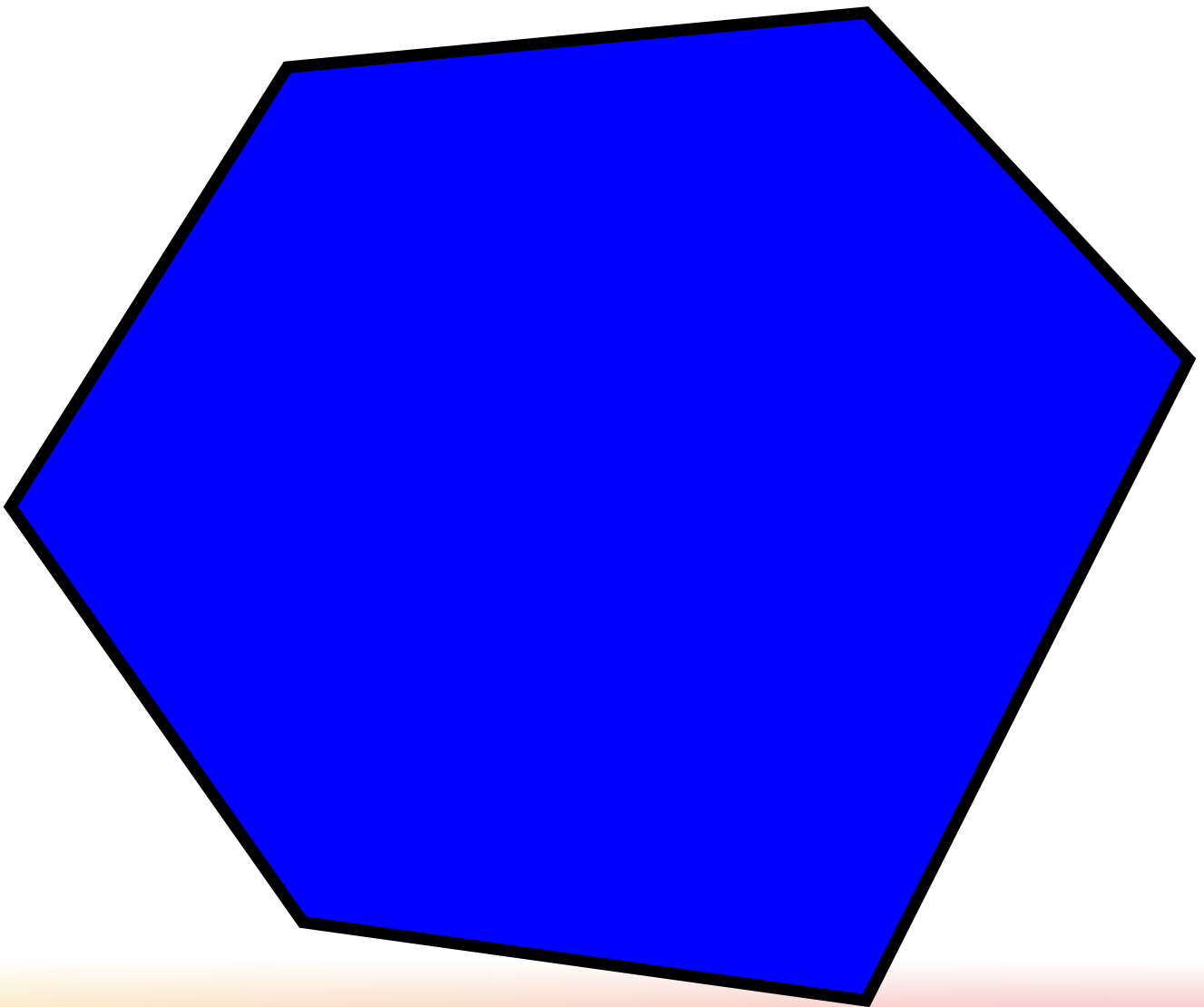
Lines of symmetry?

Six

Rotational symmetry?

Order 6

2D Shapes

Irregular hexagon
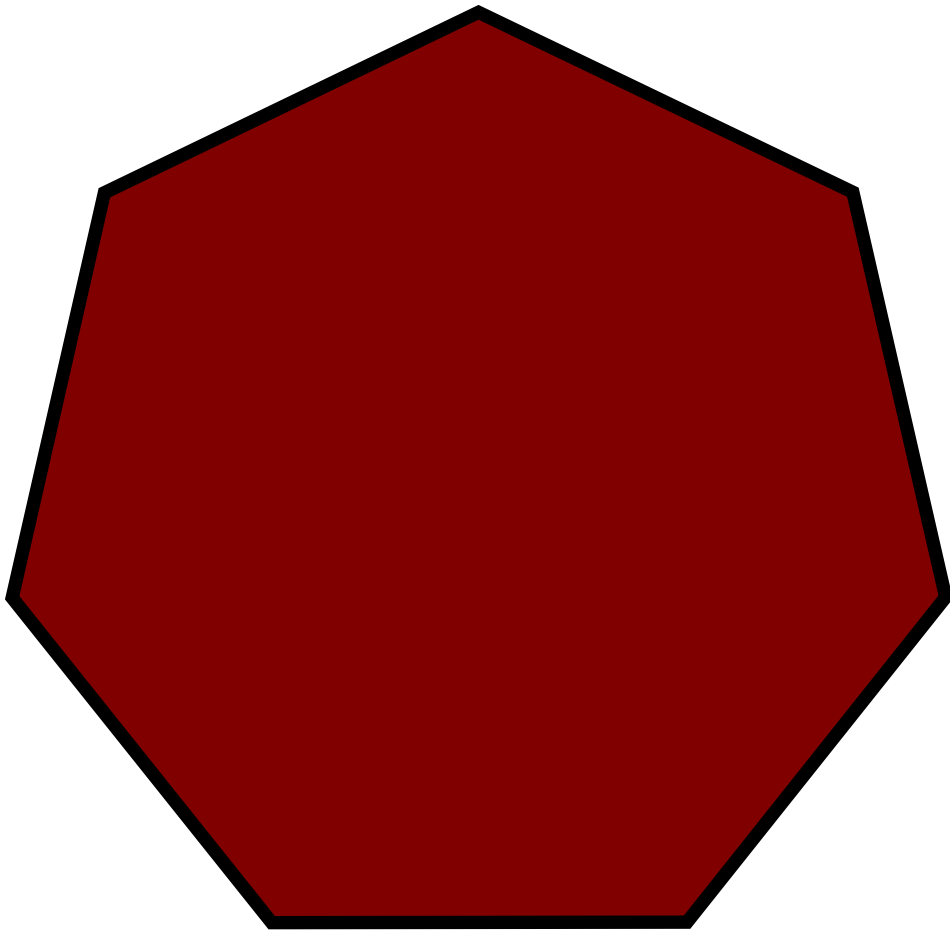A shape with 6 straight sides, one or more of different lengths.

Regular heptagon

A shape with 7 equal-length sides and 7 equal angles.

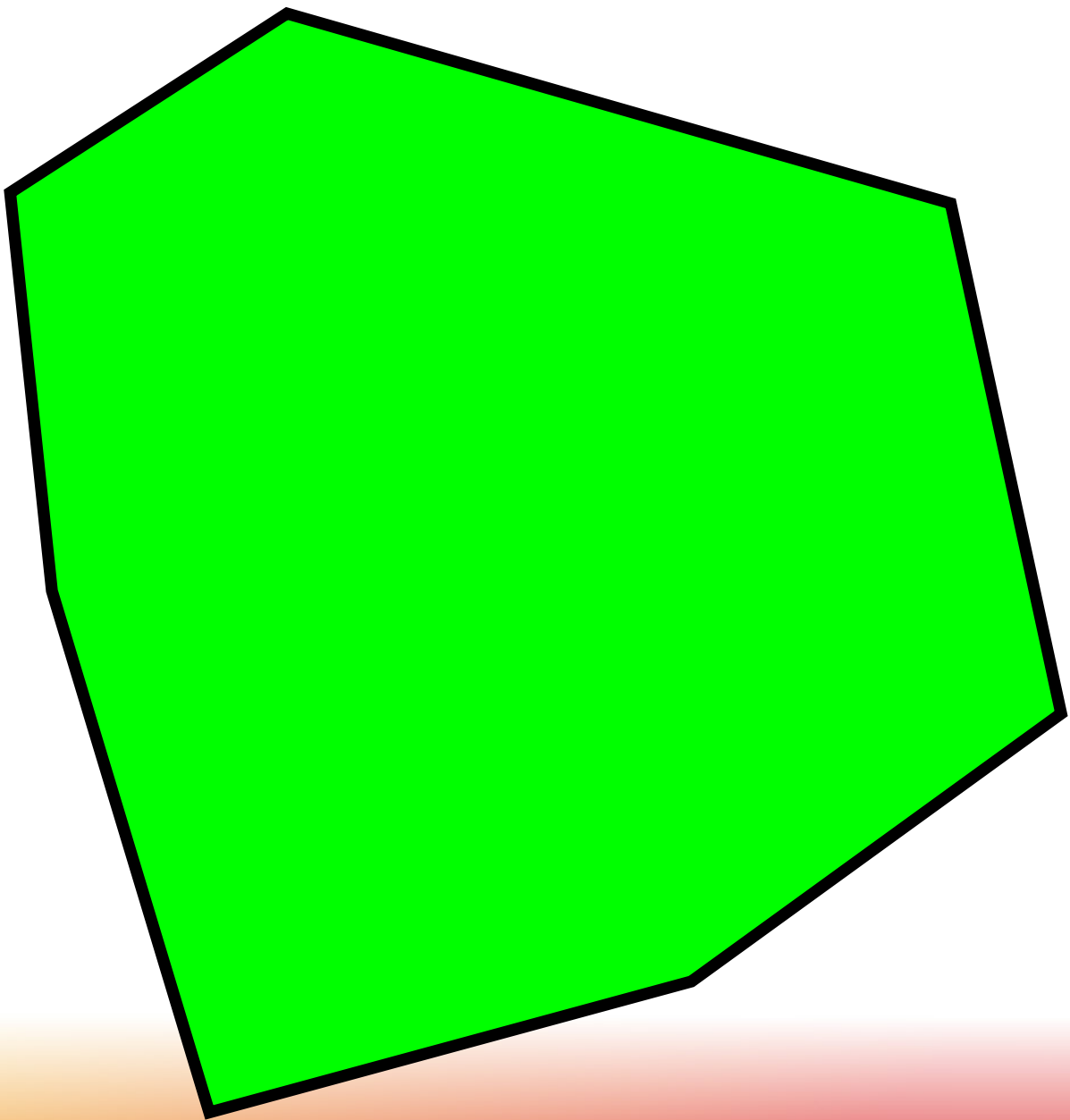**Lines of symmetry?**

Seven

Rotational symmetry?

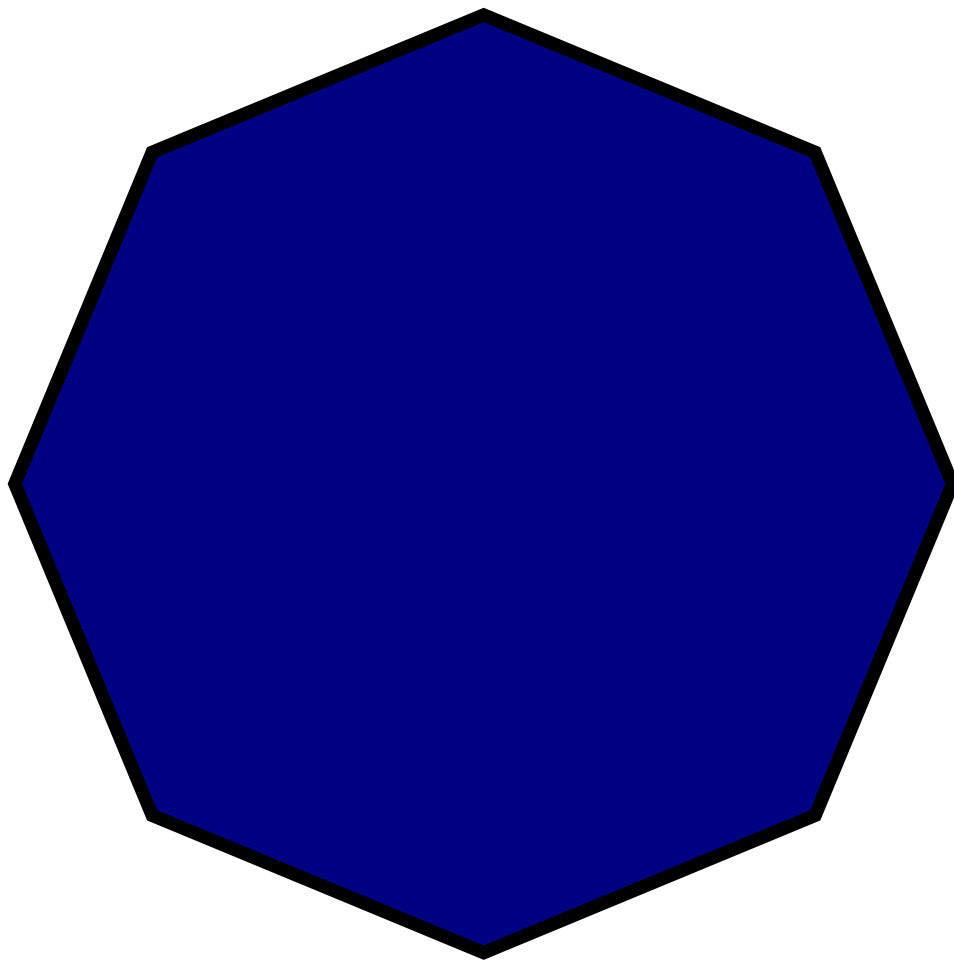Order 7

2D Shapes

Irregular heptagon

A shape with 7 straight sides, one or more of different lengths.

2D Shapes

Regular octagon

A shape with 8 equal-length sides and 8 equal angles.
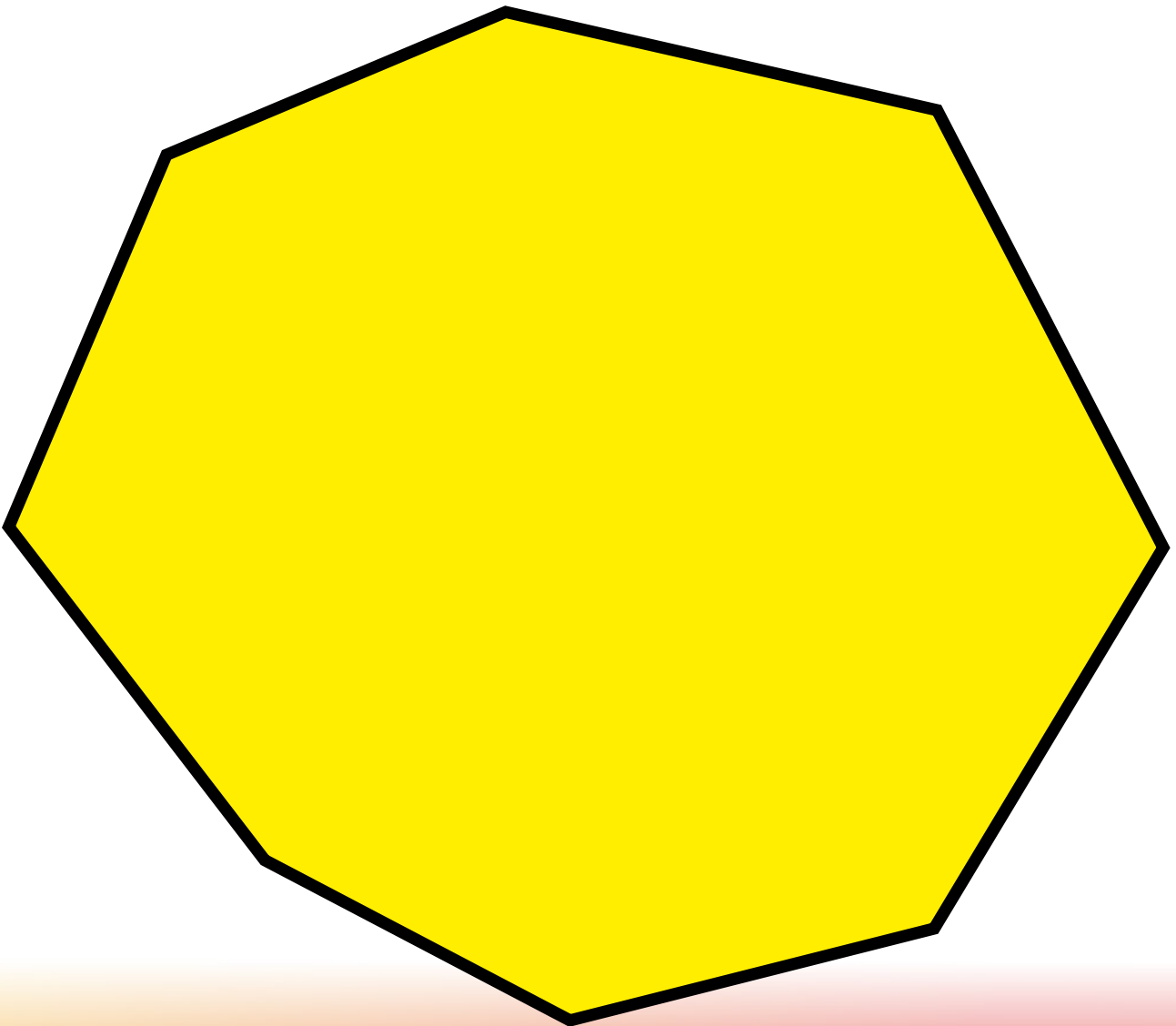
Lines of symmetry?

Eight

Rotational symmetry?

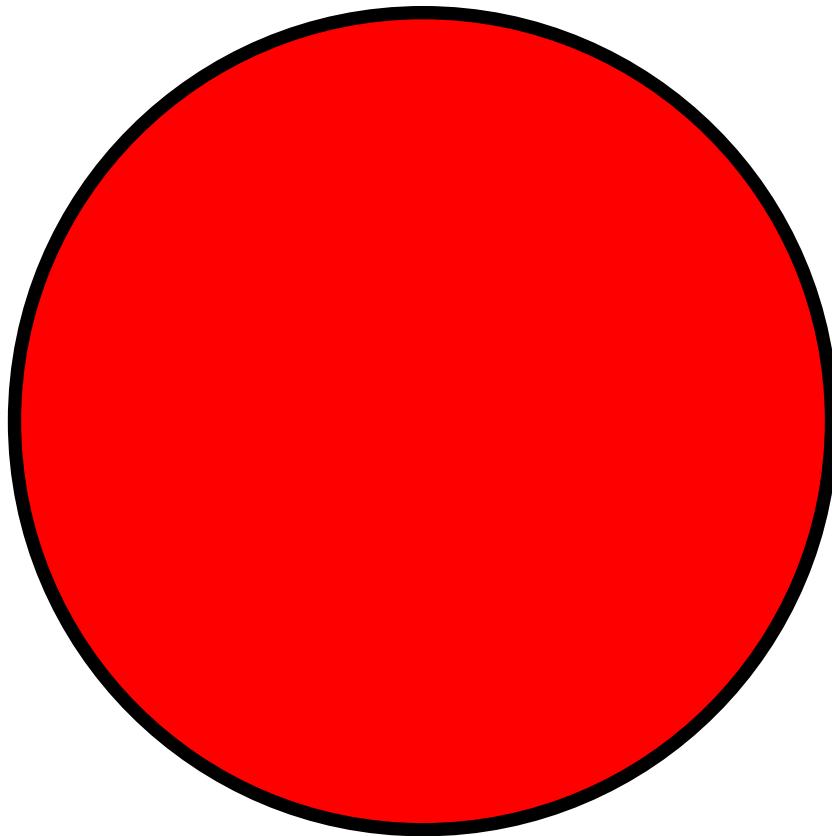Order 8

2D Shapes

Irregular octagon

A shape with 8 straight sides, one or more of different lengths.

2D Shapes

Circle

Every point on the circumference is the same distance from the centre.

Lines of symmetry?

Infinite number

Rotational symmetry?

Order infinity