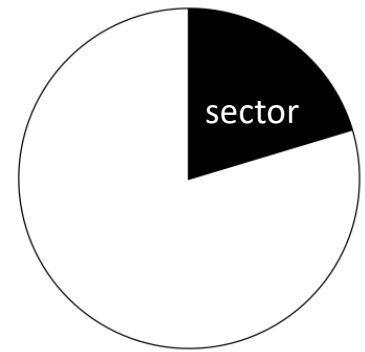


# 1. Angle Measures

There are \_\_\_\_\_ degrees in a full circle. Use this information to find the measures of each angle sector.



Color	Number of Pieces	Angle measure
Blue		
Brown		
Black		
Yellow		
Green		
Orange		
Red		
Purple		
Pink		

Now use this information to answer the questions on the back.



## 2 Interior Angles

Use your Fraction Circle sectors to measure the angles of each polygon and find the interior angle sum.

Polygon	A	Angle B	C	D	E	F	Sum
Triangle 1	_____	_____	_____				_____
Triangle 2	_____	_____	_____				_____
Triangle 3	_____	_____	_____				_____
Triangle 4	_____	_____	_____				_____
Quadrilateral 1	_____	_____	_____	_____			_____
Quadrilateral 2	_____	_____	_____	_____			_____
Quadrilateral 3	_____	_____	_____	_____			_____
Quadrilateral 4	_____	_____	_____	_____			_____
Pentagon 1	_____	_____	_____	_____	_____		_____
Pentagon 2	_____	_____	_____	_____	_____		_____
Hexagon 1	_____	_____	_____	_____	_____	_____	_____
Hexagon 2	_____	_____	_____	_____	_____	_____	_____
Heptagon (7 sides)							_____

What patterns did you notice?

---

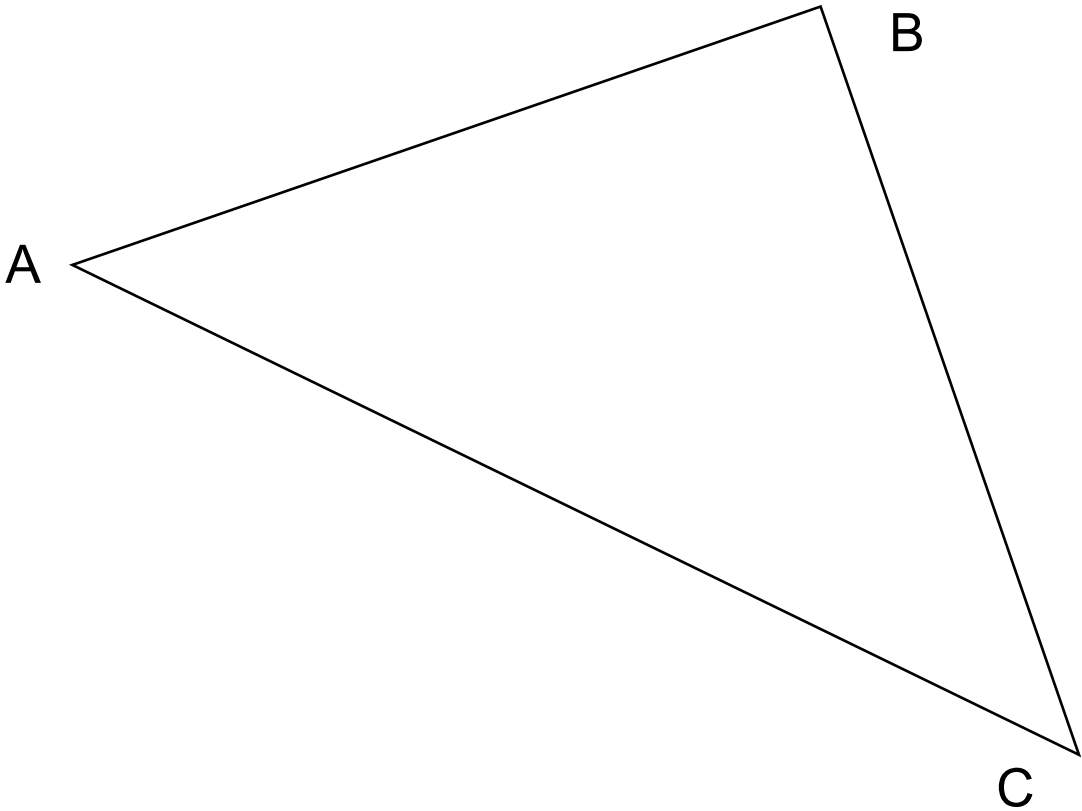


---

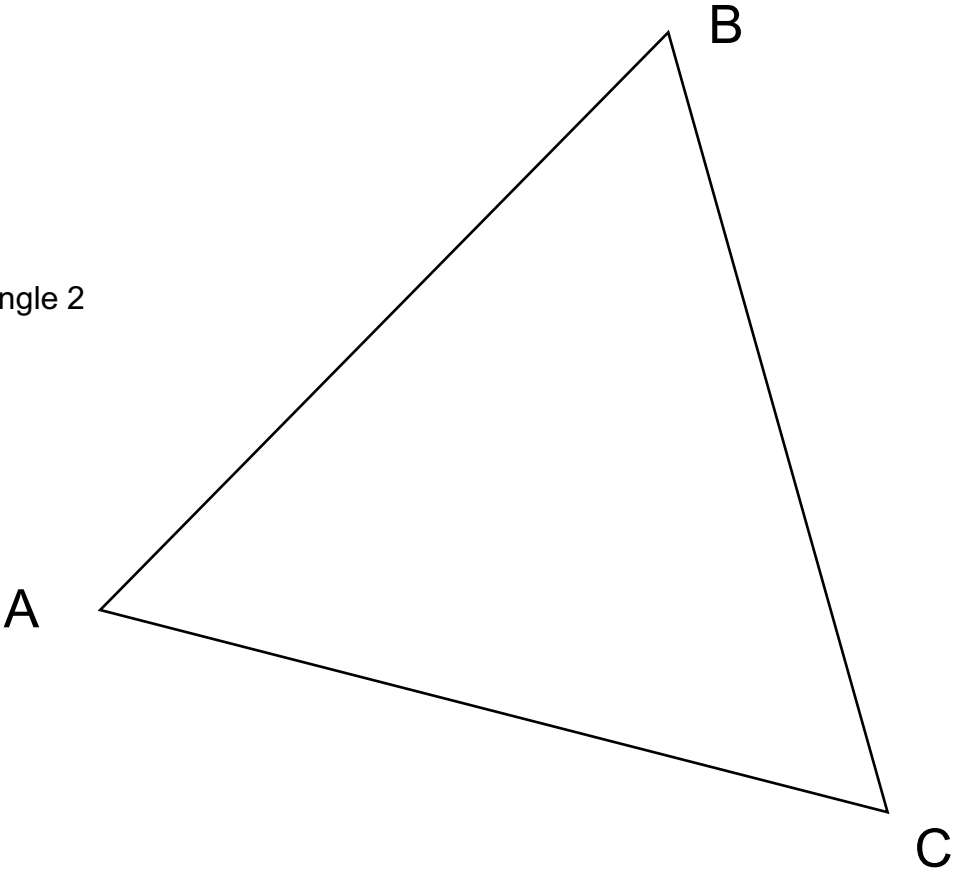
Can you find a formula for the interior angle sum of a polygon where  $n$  is the number of sides? \_\_\_\_\_

Icosagon (20 sides) \_\_\_\_\_

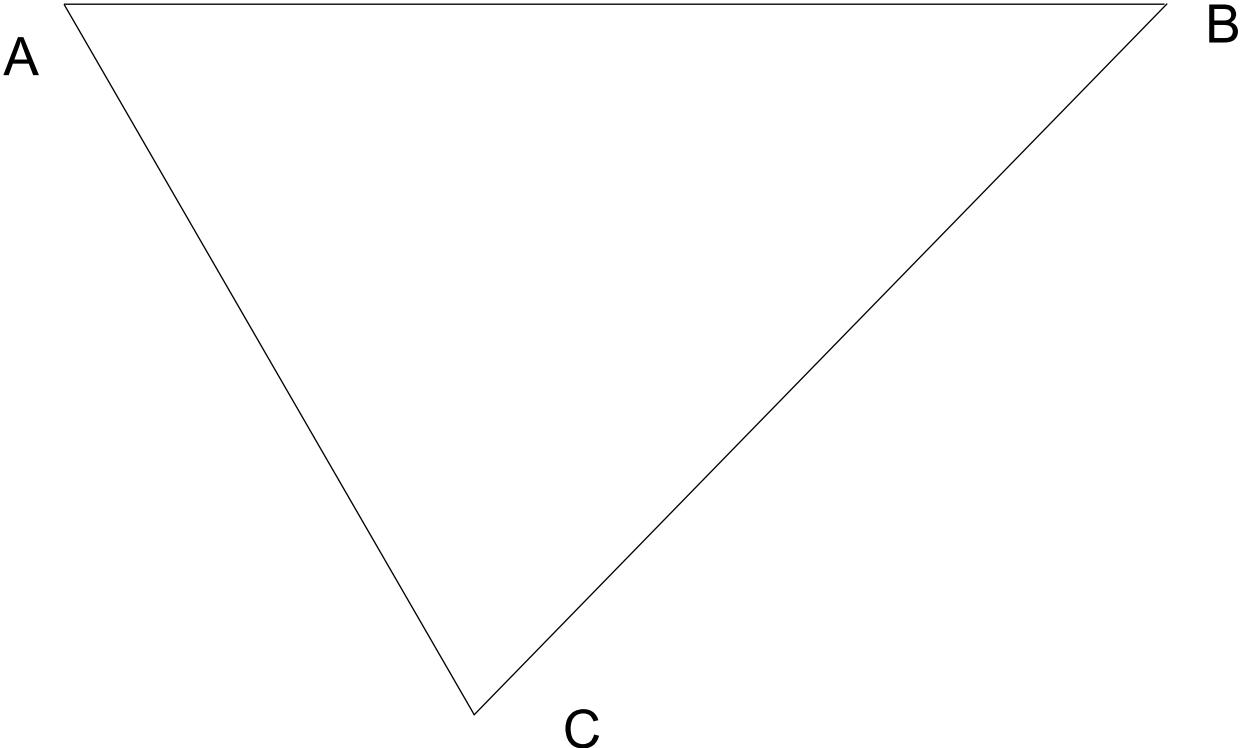
Triangle 1



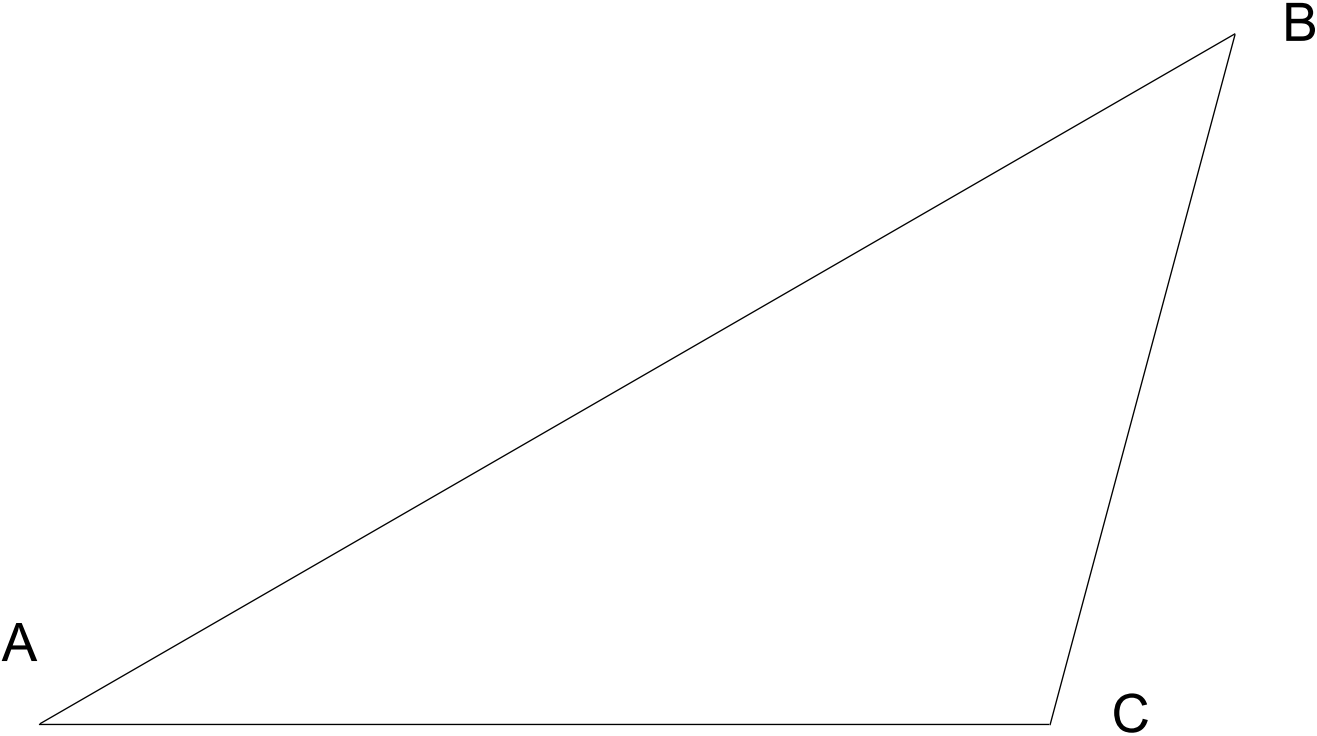
Triangle 2



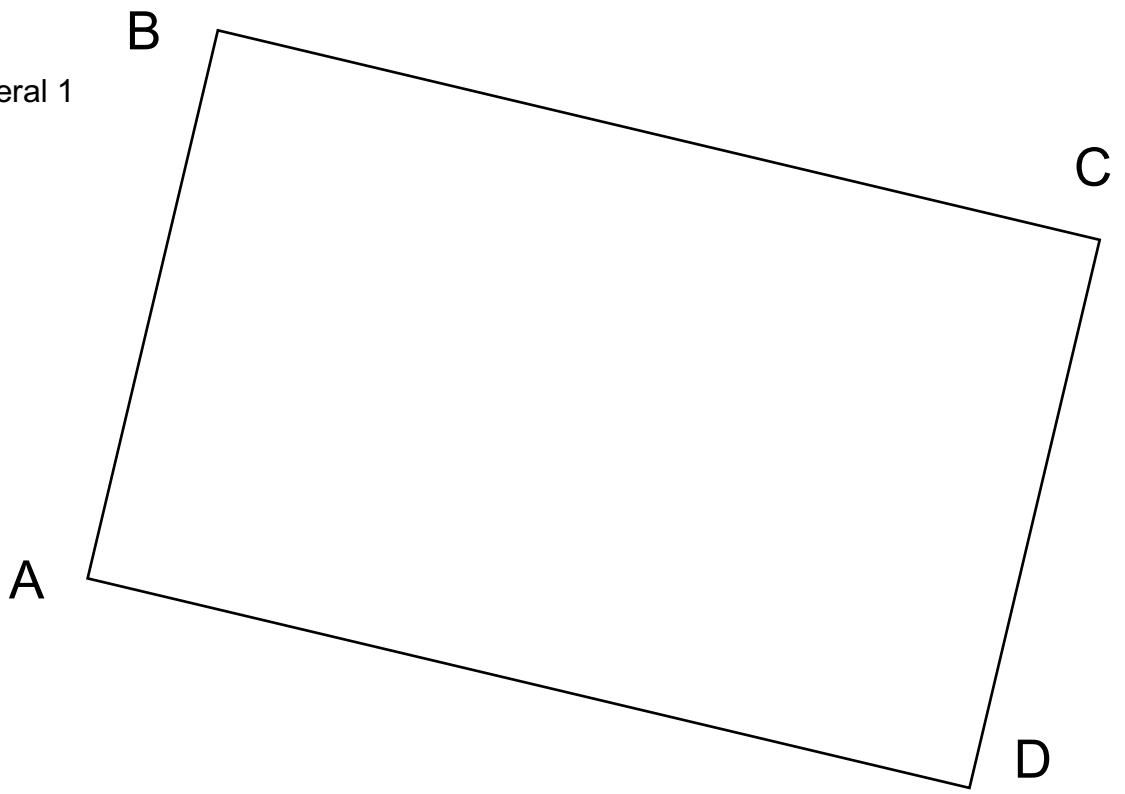
Triangle 3



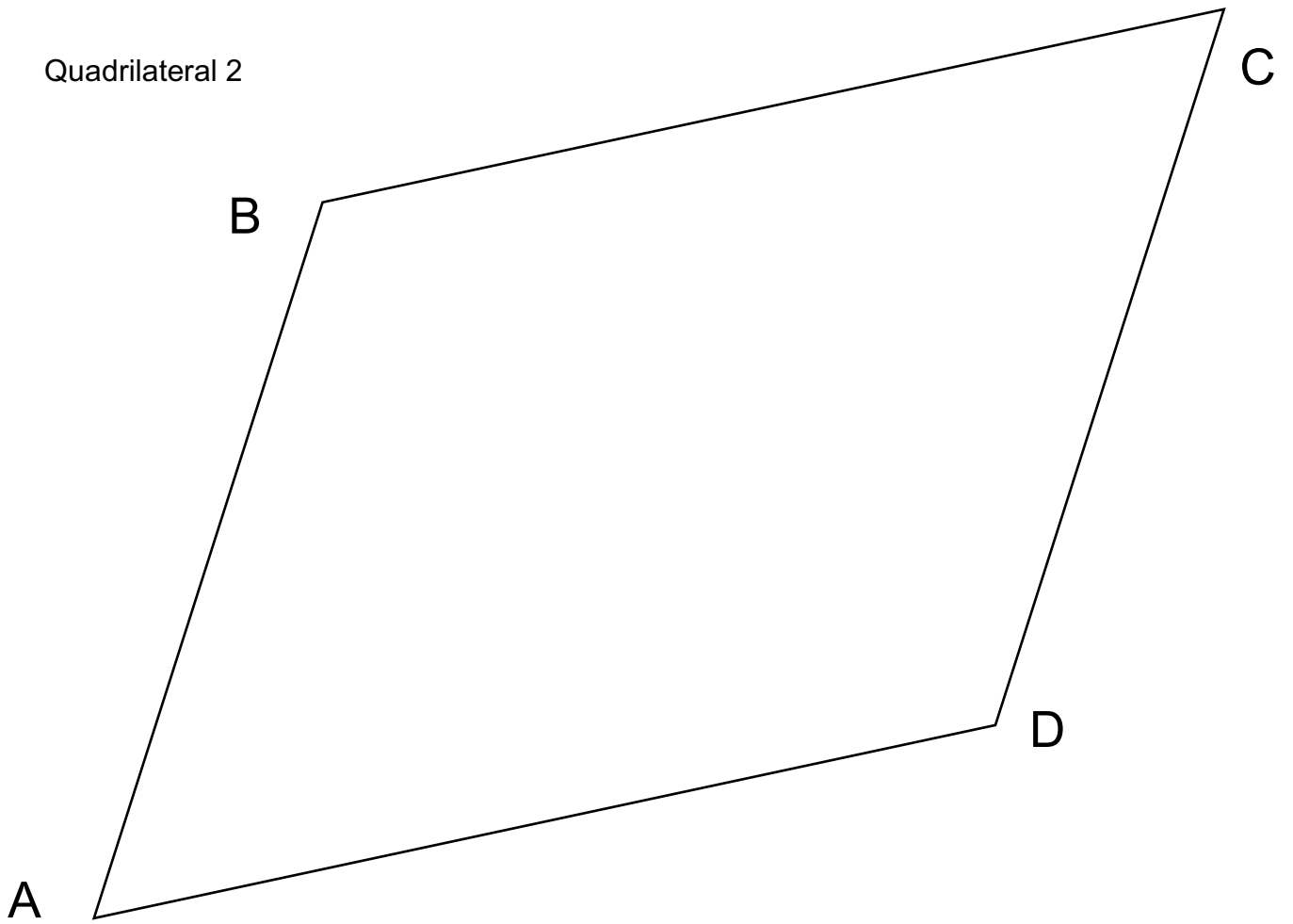
Triangle 4



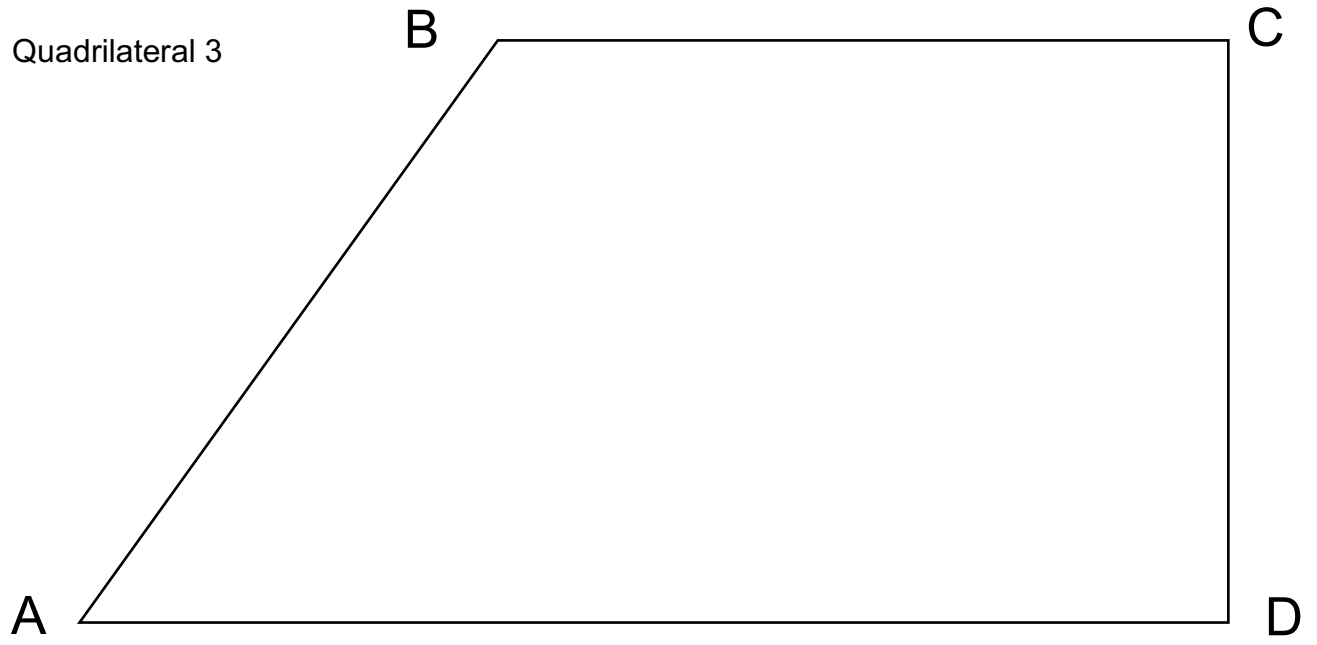
Quadrilateral 1



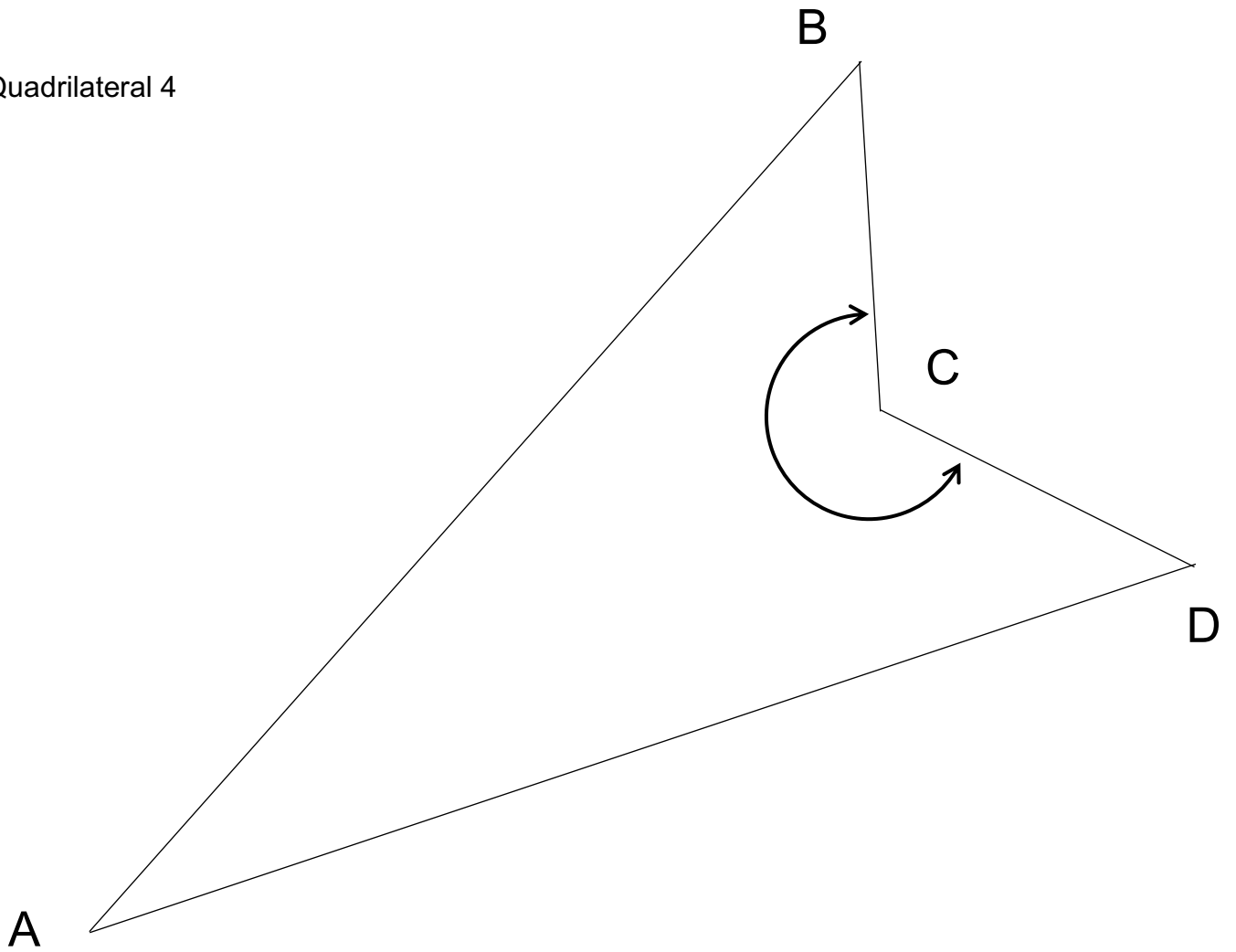
Quadrilateral 2



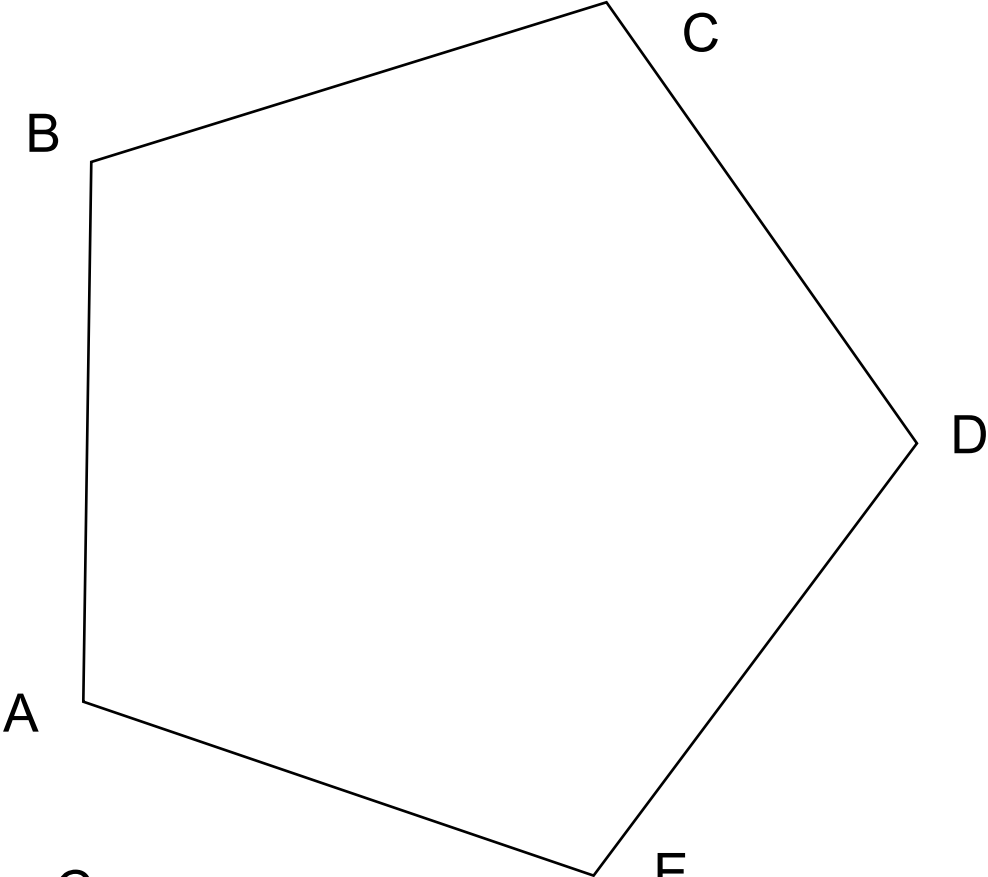
Quadrilateral 3



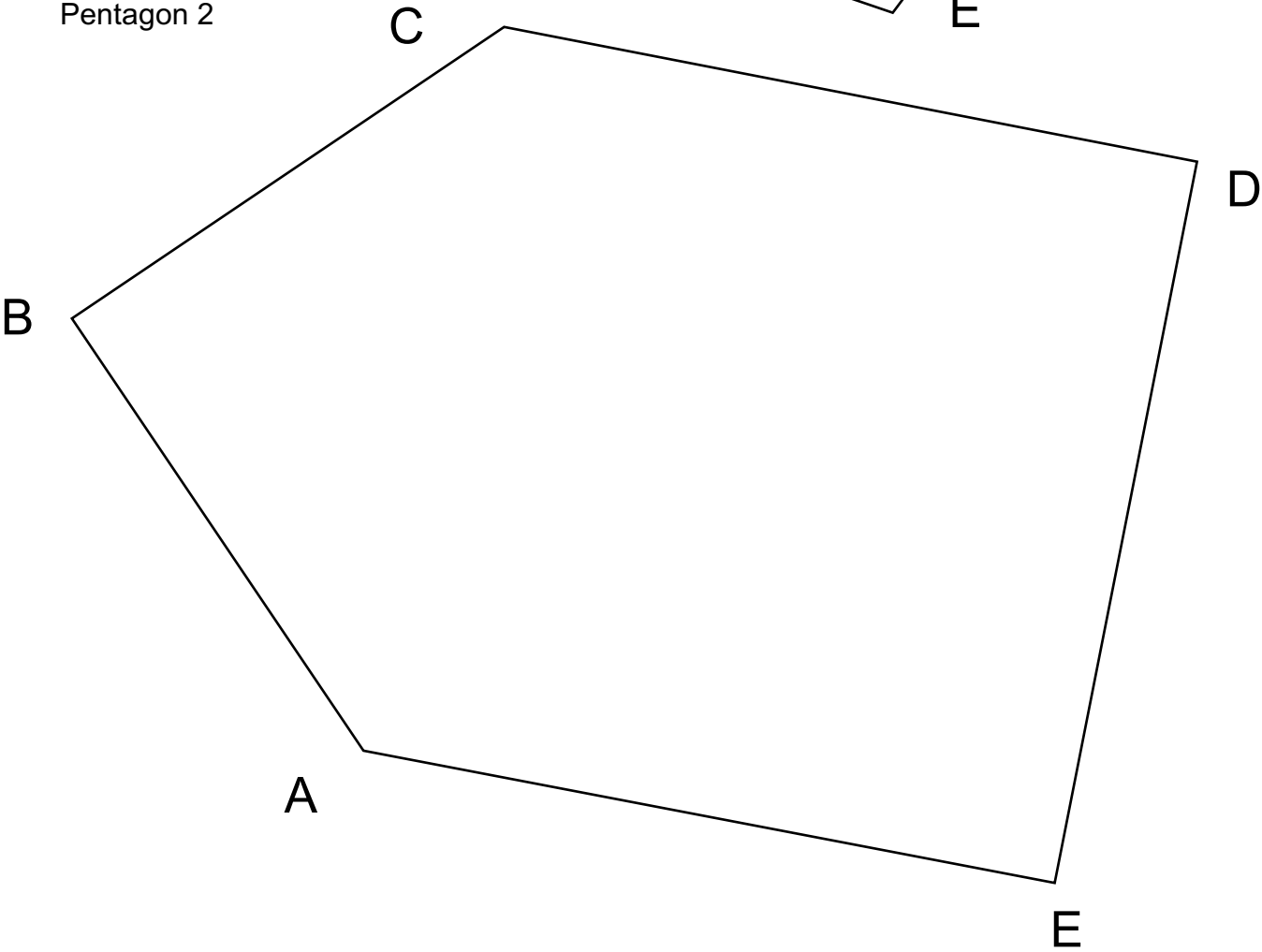
Quadrilateral 4



Pentagon 1

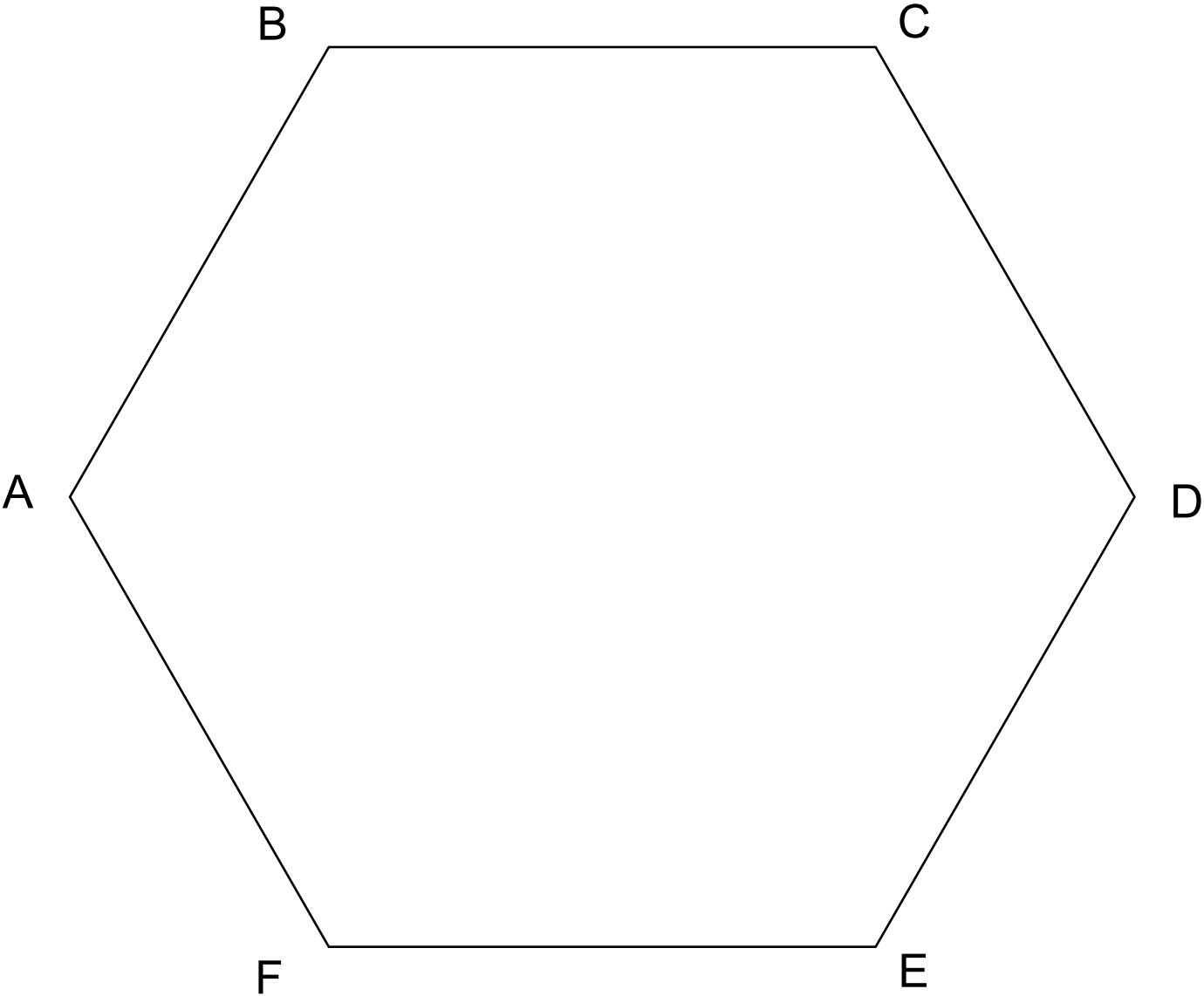


Pentagon 2





Hexagon 1



Hexagon 2

