Classifying Kites and Squares

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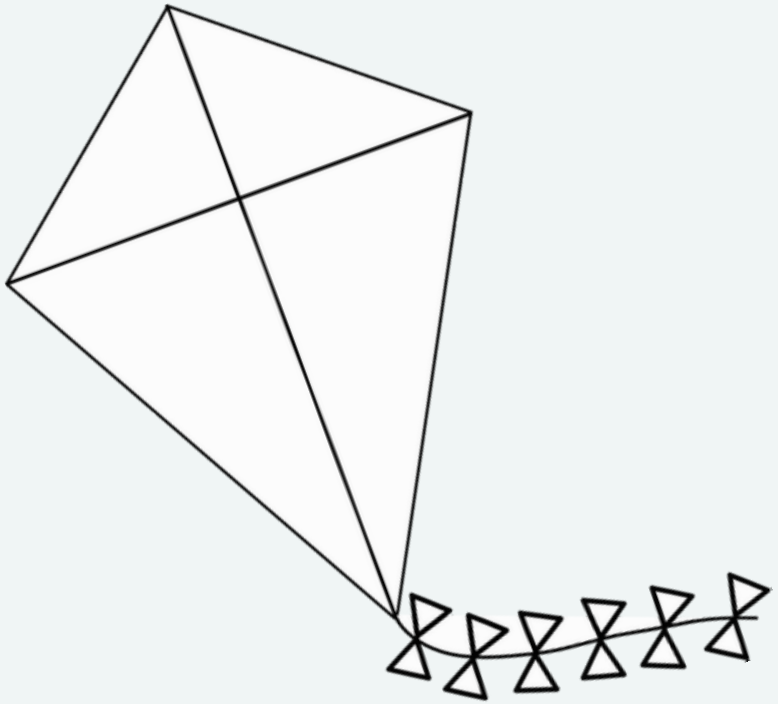
1. Sketch a kite



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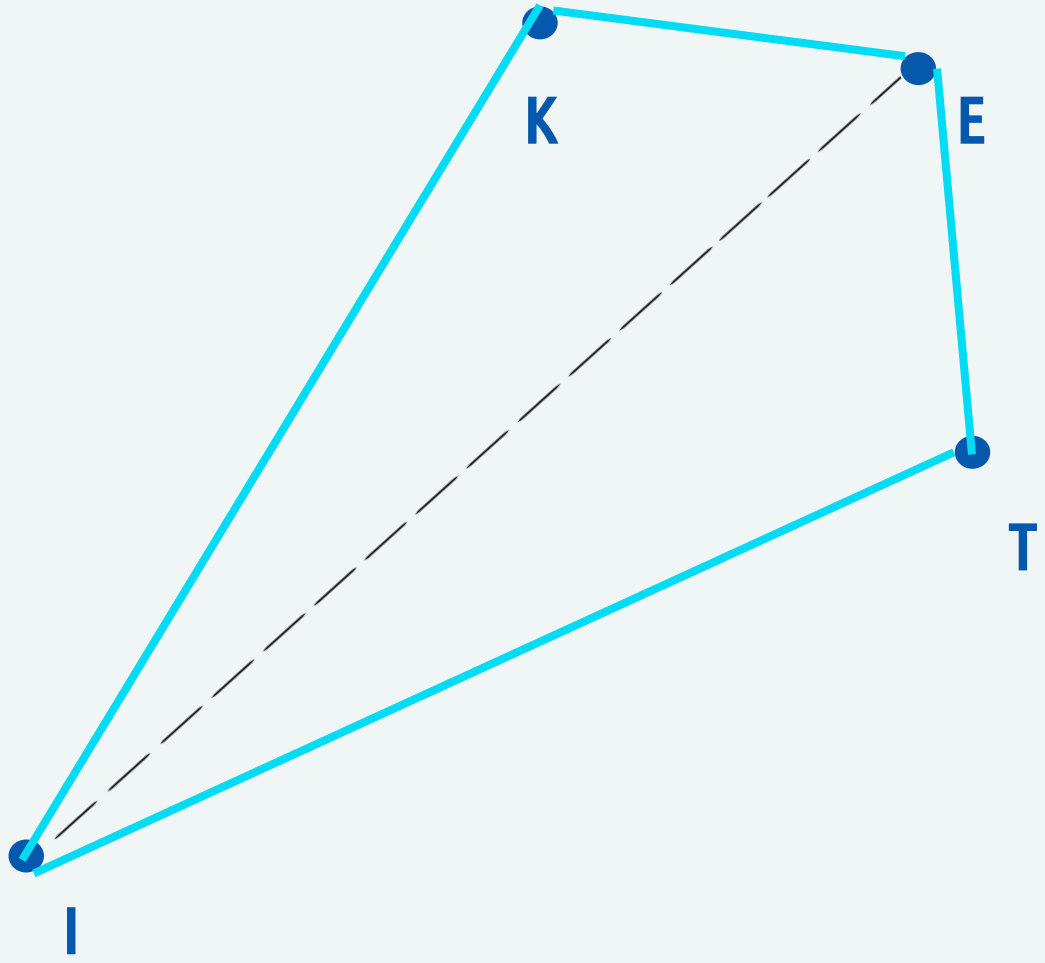
Construct a Kite



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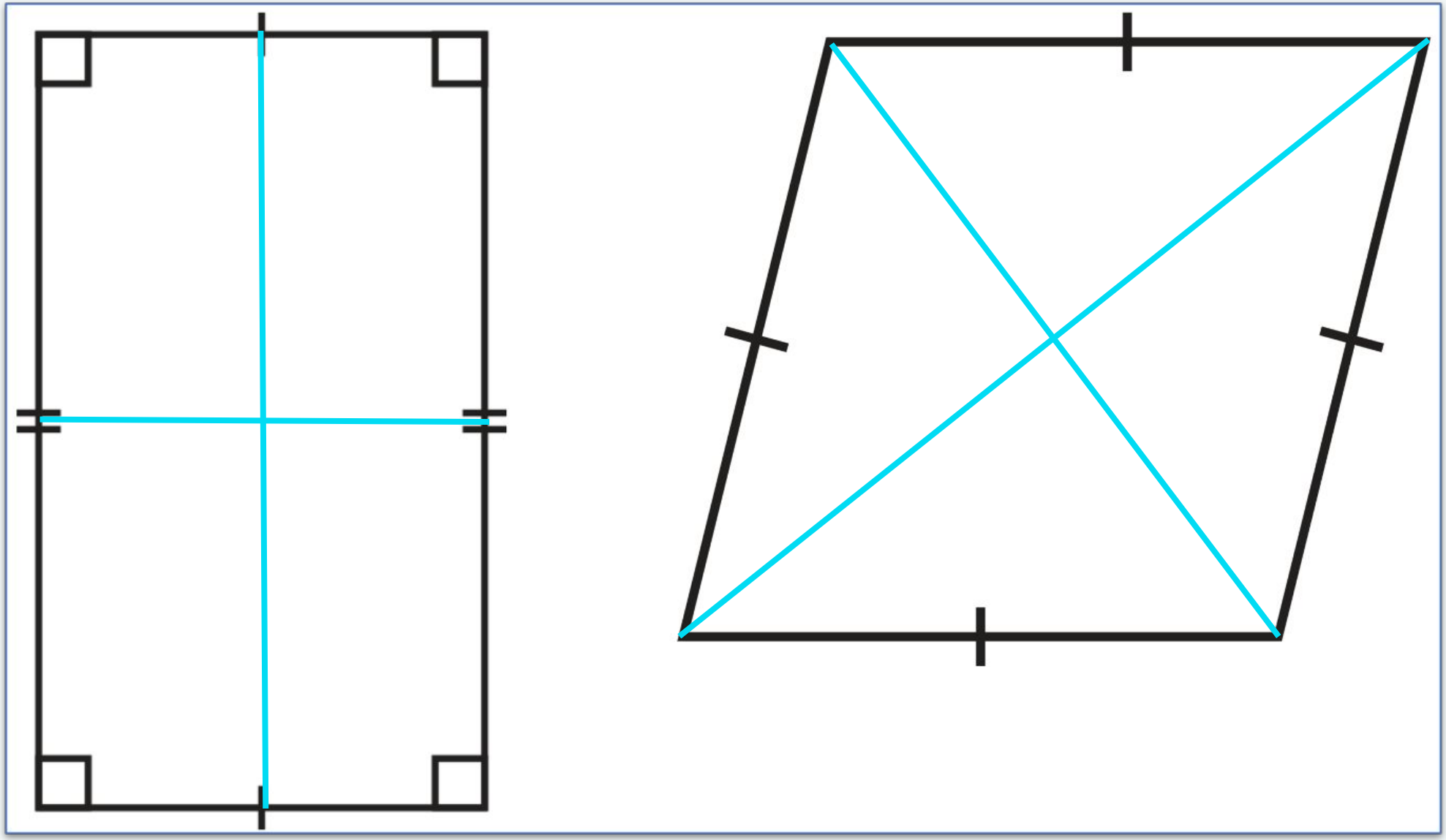
RECTANGLE

RHOMBUS



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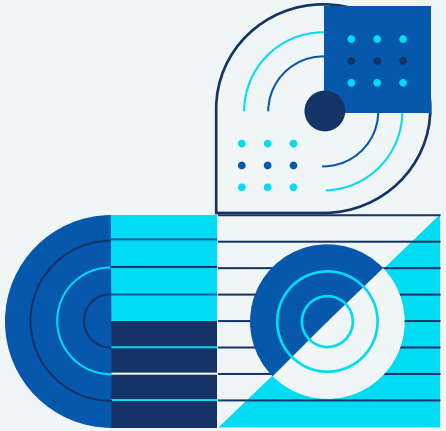
1. Can a rectangle ever be a rhombus?

2. Can a rhombus ever be a rectangle?



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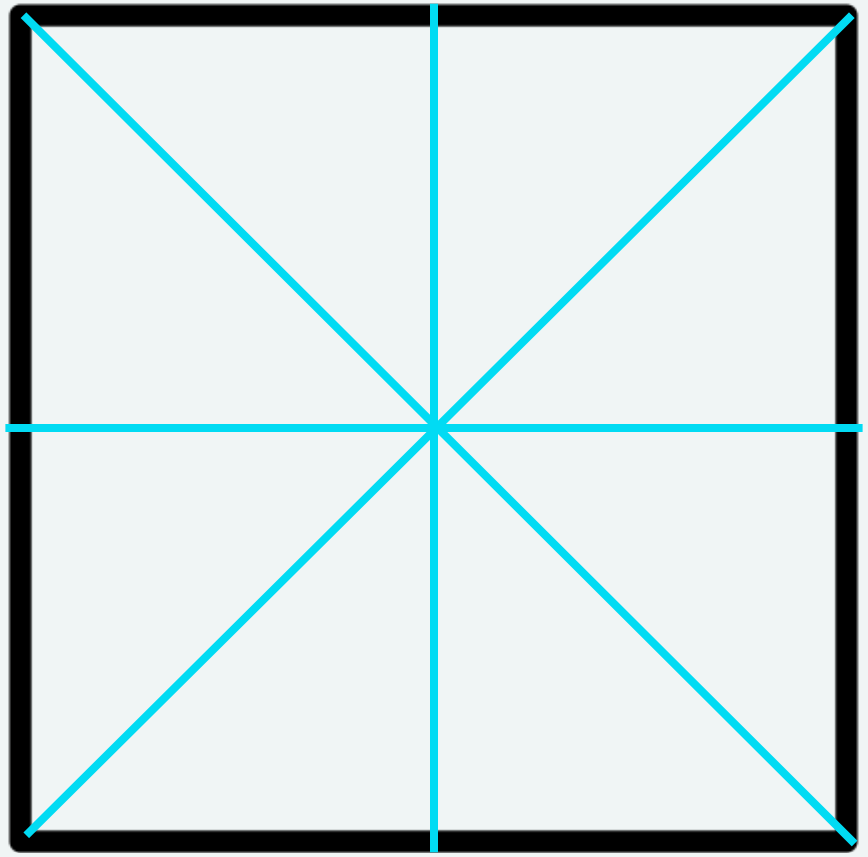

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- Polygons with 4 sides
- Angle measures that sum to 360 degrees

Trapezoid

- At least 1 pair of parallel sides
- At least 2 pairs of supplementary angles

Kites

- At least 2 pairs of adjacent sides that have the same length
- At least 1 line of symmetry

Parallelograms

- Opposite sides that are parallel
- Opposite sides that have the same length
- Opposite angles that have the same measure
- Diagonals intersecting at midpoints

Rectangles

- 4 right angles
- Diagonals that have the same length
- At least 2 lines of symmetry

Rhombuses

- 4 sides that have the same length
- At least 2 lines of symmetry

Squares

- 4 lines of symmetry

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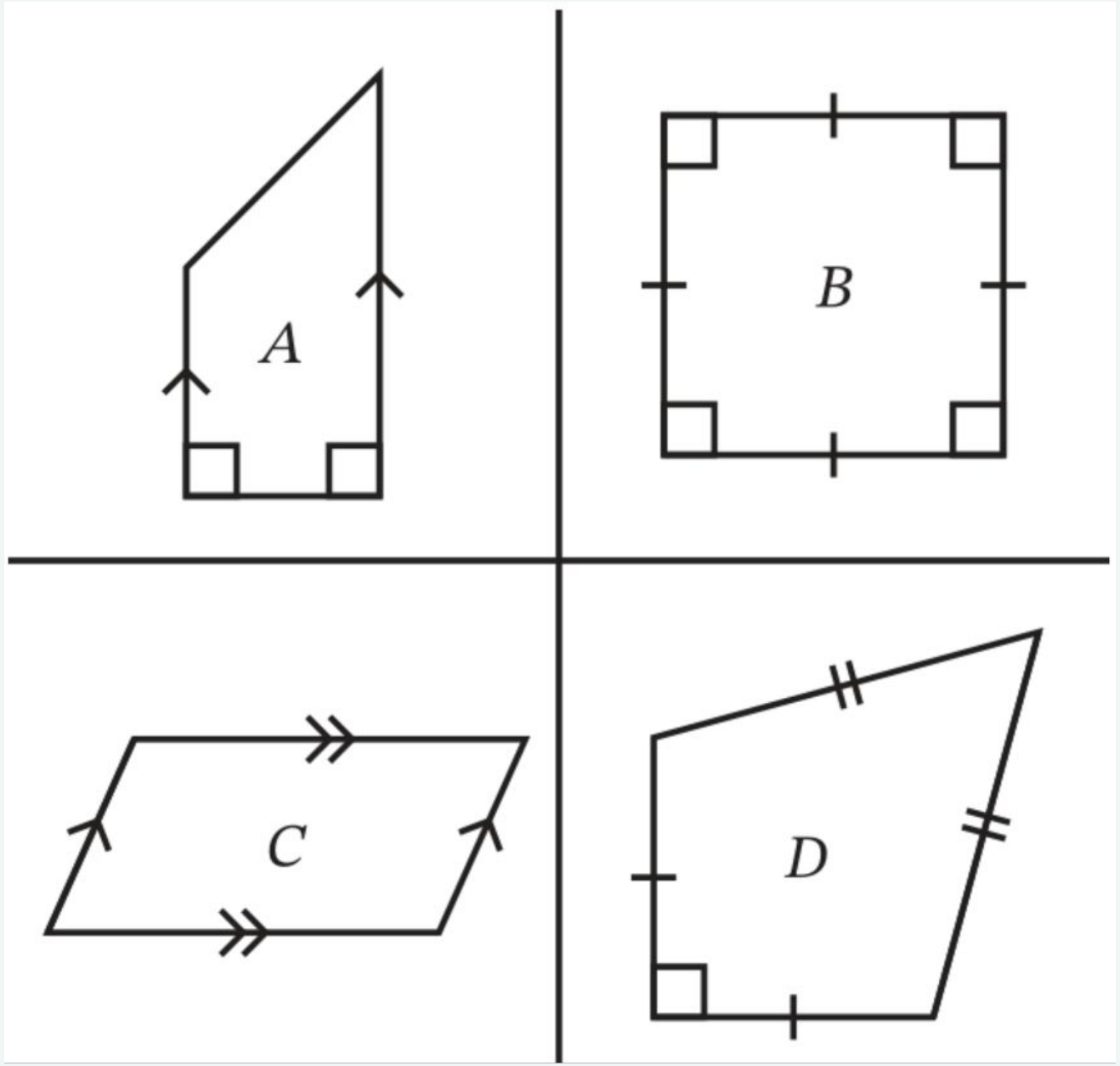

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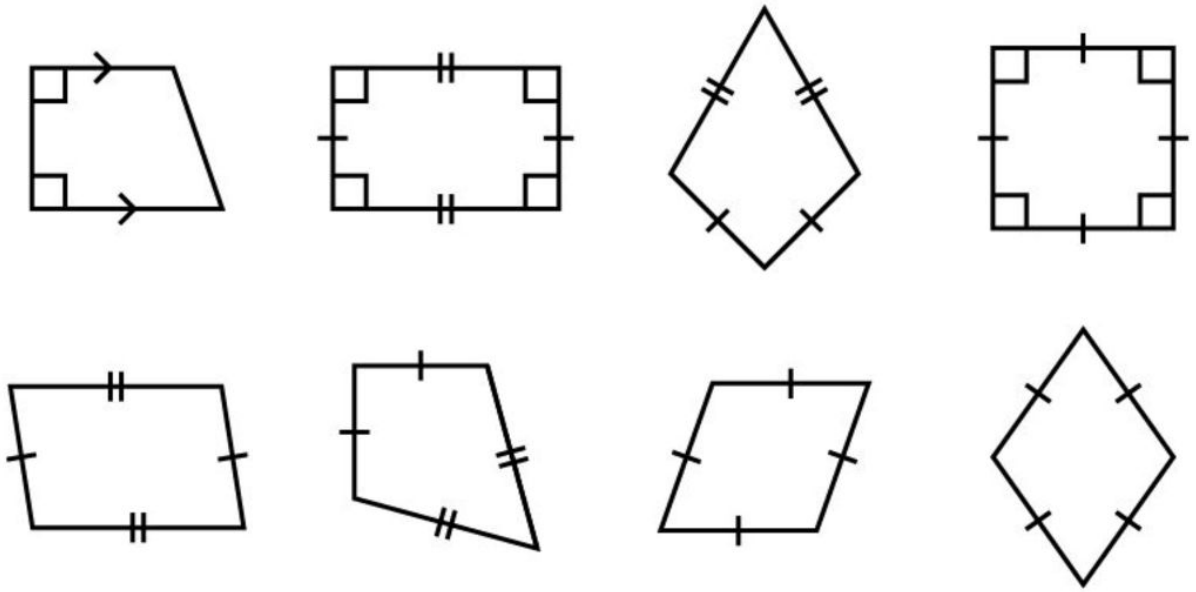
1. Consider the quadrilaterals shown.



a. Use red to color each kite.

b. Circle each square.

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Sketch the shape as described.

2. Kite with 4 equal side lengths and no right angles

3. Kite that is not a trapezoid

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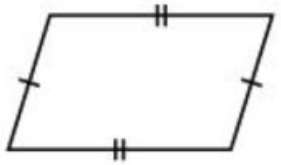
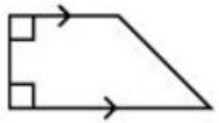
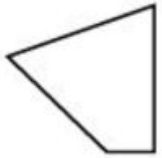
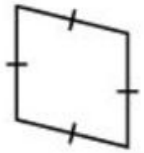
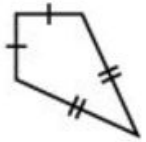
4. Consider the polygons shown. Mark each name that can be used to classify the polygon. More than one name may be marked.

Polygon	Quadrilateral	Trapezoid	Parallelogram	Rectangle	Rhombus	Kite
						
						
						
						
						

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5. Scott knows that all rhombuses and squares are also kites. Because all rhombuses and squares are also trapezoids, Scott thinks that all kites must be trapezoids as well. Is he correct? Explain.

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- Polygons with 4 sides
- Angle measures that sum to 360 degrees

Trapezoid

- At least 1 pair of parallel sides
- At least 2 pairs of supplementary angles

Kites

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- At least 1 line of symmetry

Parallelograms

- Opposite sides that are parallel
- Opposite sides that have the same length
- Opposite angles that have the same measure
- Diagonals intersecting at midpoints

Rectangles

- 4 right angles
- Diagonals that have the same length
- At least 2 lines of symmetry

Rhombuses

- 4 sides that have the same length
- At least 2 lines of symmetry

Squares

- 4 lines of symmetry

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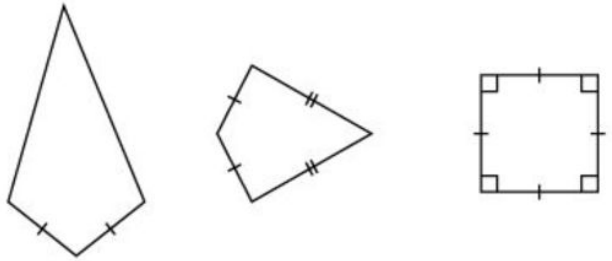
Exit Ticket

1. Consider the quadrilaterals shown.



   a. Circle each quadrilateral that can be classified as a kite.

   b. Write the letter S in each quadrilateral that can be classified as a square.

2. When can a quadrilateral be classified as a kite?

3. When can a rhombus be classified as a square?

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Quadrilateral Robots

1 piece of black construction paper

1 of each quadrilateral

- Square
- Rectangle
- Kite
- Rhombus
- Trapezoid
- Parallelogram

1 “My Robot Has” sheet

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Eureka Math Worksheet

Eureka Math Exit Ticket

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