

13.11 Quadrilaterals Day 3 Practice

Find the slope of the sides and diagonals of the following quadrilaterals. Then using the properties of quadrilaterals, determine if it is a rhombus, rectangle, or square.

1) Type of quad: _____

Slope of sides:

\overline{AB} _____

\overline{BC} _____

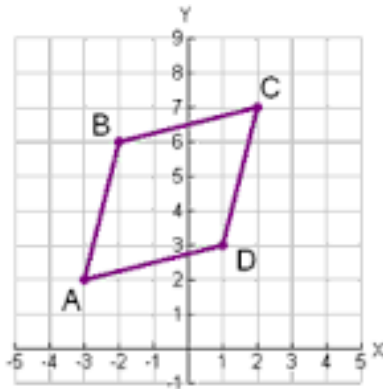
\overline{CD} _____

\overline{DA} _____

Slope of diagonals:

\overline{AC} _____

\overline{BD} _____



2) Type of quad: _____

Slope of sides:

\overline{AB} _____

\overline{BC} _____

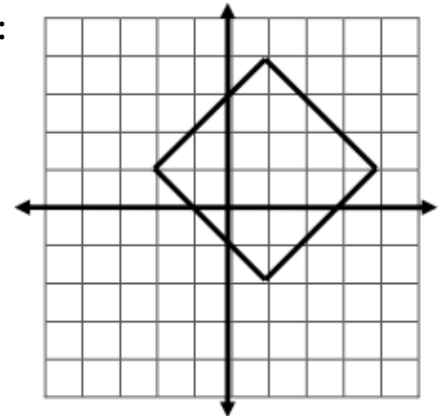
\overline{CD} _____

\overline{DA} _____

Slope of diagonals:

\overline{AC} _____

\overline{BD} _____



3) Type of quad: _____

Slope of sides:

\overline{AB} _____

\overline{BC} _____

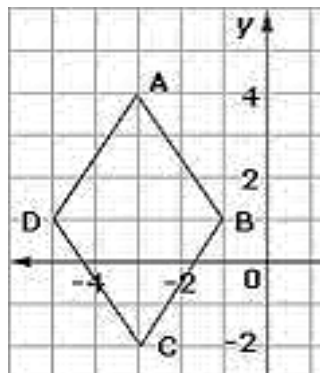
\overline{CD} _____

\overline{DA} _____

Slope of diagonals:

\overline{AC} _____

\overline{BD} _____



4) Type of quad: _____

Slope of sides:

\overline{AB} _____

\overline{BC} _____

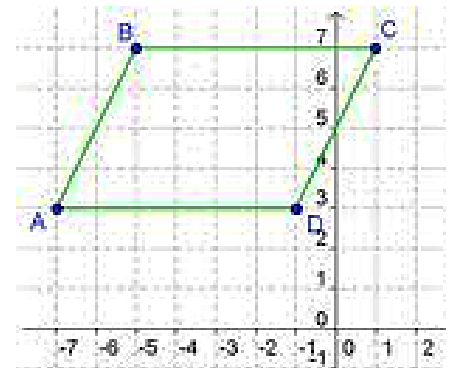
\overline{CD} _____

\overline{DA} _____

Slope of diagonals:

\overline{AC} _____

\overline{BD} _____



5) Type of quad: _____

Slope of sides:

\overline{AB} _____

\overline{BC} _____

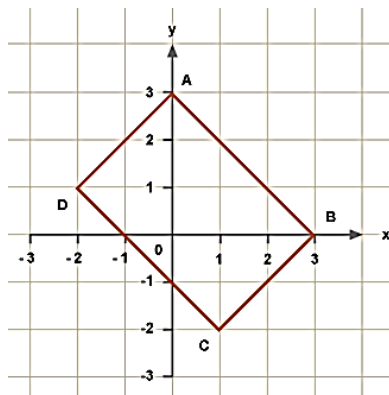
\overline{CD} _____

\overline{DA} _____

Slope of diagonals:

\overline{AC} _____

\overline{BD} _____



6) Type of quad: _____

Slope of sides:

\overline{AB} _____

\overline{BC} _____

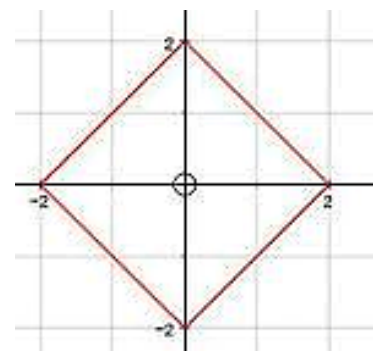
\overline{CD} _____

\overline{DA} _____

Slope of diagonals:

\overline{AC} _____

\overline{BD} _____



Use the following information to classify each quadrilateral as a square, rectangle, rhombus, parallelogram, or just a generic quadrilateral.

7)

Classify quadrilateral **BEAR**, where:

$$\text{Slope of } \overline{BE} = \frac{1}{3}$$

$$\text{Slope of } \overline{EA} = -3$$

$$\text{Slope of } \overline{AR} = \frac{1}{3}$$

$$\text{Slope of } \overline{BR} = -3$$

BEAR is a _____

$$\text{Length of } \overline{BE} = \sqrt{10}$$

$$\text{Length of } \overline{EA} = \sqrt{10}$$

$$\text{Length of } \overline{AR} = \sqrt{10}$$

$$\text{Length of } \overline{BR} = \sqrt{10}$$

8)

Classify quadrilateral **OHMY**, where:

$$\text{Slope of } \overline{OH} = -\frac{1}{3}$$

$$\text{Slope of } \overline{HM} = -3$$

$$\text{Slope of } \overline{MY} = -\frac{1}{3}$$

$$\text{Slope of } \overline{OY} = -3$$

OHMY is a _____

$$\text{Length of } \overline{OH} = \sqrt{10}$$

$$\text{Length of } \overline{HM} = 2\sqrt{10}$$

$$\text{Length of } \overline{MY} = \sqrt{10}$$

$$\text{Length of } \overline{OY} = 2\sqrt{10}$$

9)

Classify quadrilateral **WZRD**, where:

$$\text{Slope of } \overline{WZ} = 0$$

$$\text{Slope of } \overline{ZR} = -\frac{4}{3}$$

$$\text{Slope of } \overline{RD} = 0$$

$$\text{Slope of } \overline{WD} = -\frac{4}{3}$$

WZRD is a _____

$$\text{Length of } \overline{WZ} = 5$$

$$\text{Length of } \overline{ZR} = 5$$

$$\text{Length of } \overline{RD} = 5$$

$$\text{Length of } \overline{WD} = 5$$

10)

Classify quadrilateral **AHSZ**, where:

$$\text{Slope of } \overline{AH} = \frac{1}{4}$$

$$\text{Slope of } \overline{SZ} = \frac{6}{7}$$

$$\text{Slope of } \overline{HS} = -4$$

$$\text{Slope of } \overline{ZA} = \frac{9}{2}$$

AHSZ is a _____

$$\text{Length of } \overline{AH} = \sqrt{17}$$

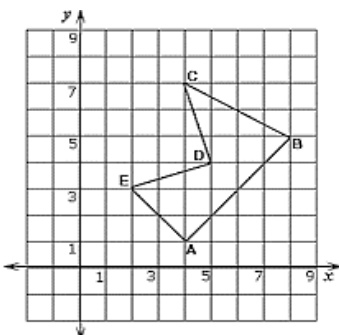
$$\text{Length of } \overline{SZ} = \sqrt{85}$$

$$\text{Length of } \overline{HS} = \sqrt{17}$$

$$\text{Length of } \overline{ZA} = \sqrt{85}$$

Find the distance between points A and B.

11)



12)

