

Polygons in the Coordinate Plane Exit Quiz

Part A Instructions: Choose the option that completes the sentence or answers the question.

1. The distance between two points (x_1, y_1) and (x_2, y_2) is:

- a. $\sqrt{(x_2 - x_1)^2 - (y_2 - y_1)^2}$
- b. $\sqrt{(x_2 + x_1)^2 + (y_2 + y_1)^2}$
- c. $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
- d. None

2. The slope of a line given its points is:

- a. $m = \frac{y_2 - y_1}{x_2 - x_1}$
- b. $m = \frac{y_2 + y_1}{x_2 + x_1}$
- c. $m = \frac{x_2 - x_1}{y_2 - y_1}$
- d. None

3. A quadrilateral is a rectangle if:

- a. The diagonals are perpendicular
- b. The diagonals are congruent
- c. The opposite sides are congruent
- d. Both b and c

4. A triangle is an equilateral triangle if:

- a. All sides are of different lengths
- b. All sides are of same length
- c. All angles are of same measure
- d. Both b and c

Part B Instructions: Answer the question below.

5. Classify the quadrilateral represented by the vertices $A(-5, 1)$, $B(-3, 5)$, $C(-3, 1)$, $D(-1, 3)$.

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Answers

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_____ **Square** _____