

1.4 Perimeter and Area in the Coordinate Plane

Directions: Please answer these questions on a separate piece of paper.

1. The lines $y_1 = 2x - 6$, $y_2 = -3x + 4$, $y_3 = -\frac{1}{2}x + 4$ are the sides of a right triangle.

a) Use slopes to determine which sides are perpendicular.

b) Find the vertices of the triangle.

c) Find the perimeter and area of the triangle.

2. Plot the points $Q(-1,2)$, $U(3,2)$, $A(-1,-2)$, $D(3,-2)$.

a) Find the perimeter and area of the square.

b) Connect the midpoints of the sides of the given square to make a quadrilateral. Is this quadrilateral a square? Explain your reasoning,

c) Compare the perimeter and area of the quadrilateral you made in parts (a) and (b).

3. Solve for x . $\frac{x+1}{2} = 4x - 3$

4. What is the difference between a postulate and theorem?

5. $|x - 4| = 5$

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