Name: _	Key
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Date:	Hour:

## Finding a Missing Coordinate without a Picture

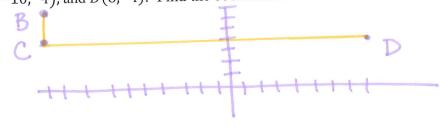
Find the missing coordinate in the quadrilateral.

1. ABCD is a rectangle with B(-10, 7), C(-10, 4), and D(8, 4). Find the coordinates of A.



C. 
$$A(4, 7)$$

E. 
$$A(-10, 4)$$



2. ABCD is a rectangle with B(-4, 0), C(-4, 2), and D(12, 0). Find the coordinates of A.

A. 
$$A(0, -4)$$

B. 
$$A(0, 4)$$

$$(C.)$$
  $A(12,2)$ 

D. 
$$A(2,12)$$

E. 
$$A(-2, 4)$$



3. ABCD is a rectangle with B(2, 4), C(-3, 3), and D(2, 3). Find the coordinates of A.

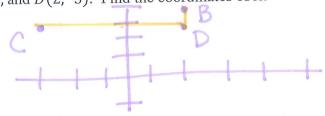
A. 
$$A(3, 4)$$

B. 
$$A(-3, 4)$$

C. 
$$A(3, -3)$$

D. 
$$A(2, 2)$$

E. 
$$A(4, 3)$$



4. Given the set of vertices for ABCD: A(-1,-5), B(-3, 0), C(2, 2), D(4, -3).  $\overline{AB}$  and  $\overline{CD}$  each have a slope of  $-\frac{5}{2}$  and segments  $\overline{BC}$  and  $\overline{AD}$  each have a slope of  $\frac{2}{5}$ . All sides have a length of  $\sqrt{29}$ . Classify ABCD with all that apply.

I. Quadrilateral

A. I and II only

5. a) What is the perimeter of ABCD from #4?

b) What is the area of *ABCD*?

$$(129)(129) = 29 \text{ units}^2$$

- 6. Given the set of vertices for BEFG: B(-9,1), E(2, 3), F(12,-2), G(1, -4).  $\overline{EF}$  and  $\overline{BG}$  each have a slope of  $-\frac{1}{2}$  and segments  $\overline{FG}$  and  $\overline{BE}$  each have a slope of  $\frac{2}{11}$ . All sides have a length of  $5\sqrt{5}$ . Classify ABCDwith all that apply.
  - Quadrilateral V I.
  - Parallelogram \ II.
  - Rectangle III.
  - Rhombus IV.
  - Square  $\mathbb{V}$ .
  - A. I and II only
  - B. I, II, and III only
  - (C.) I, II, and IV only
  - D. I, II, III, IV, and V
- 7. Given the set of vertices for BEFG: B(1,3), E(7,-3), F(1,-9), G(-5,-3).  $\overline{BE}$  and  $\overline{GF}$  each have a slope of -1 and segments  $\overline{EF}$  and  $\overline{BG}$  each have a slope of 1. All sides have a length of  $6\sqrt{2}$ . Classify ABCDwith all that apply. L sides and ≥ sides
  - Quadrilateral 🗸 I.
  - Parallelogram V II.
  - Rectangle / III.
  - IV. Rhombus -
  - V. Square
  - A. I and II only
  - B. I, II, and III only
  - C. I, II, III and IV only
  - D. I, II, III, IV, and V
- 8. a) What is the perimeter of ABCD from #7?

= sides only

b) What is the area of ABCD?

$$(612)(612) = 36.2$$
  
=  $72 \text{ units}^2$