

Coordinate proofs

Variables



Which diagram shows the most useful positioning and accurate labeling of an isosceles trapezoid in the coordinate plane?

- A.
- B.
- C.
- D.



Which diagram shows the most useful positioning and accurate labeling of a kite in the coordinate plane?

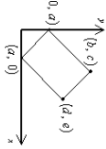
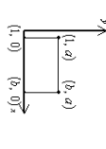
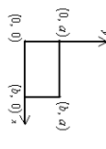
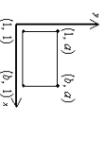
- A.
- B.
- C.
- D.



Which diagram shows the most useful positioning and accurate labeling of a rhombus in the coordinate plane?

- A.
- B.
- C.
- D.

Which diagram shows the most useful positioning of a rectangle in the first quadrant of a coordinate plane?

- A. 
- B. 
- C. 
- D. 

In the coordinate plane, three vertices of rectangle $HIJK$ are $H(0, 0)$, $I(0, d)$, and $K(e, 0)$. What are the coordinates of point J ?

- A. (e, d) B. $\left(\frac{d}{2}, \frac{e}{2}\right)$ C. $(2e, 2d)$ D. (d, e)

The vertices of the trapezoid are the origin along with $A(4p, 4q)$, $B(4r, 4q)$, and $C(4s, 0)$. Find the midpoint of the midsegment of the trapezoid.

- A. $(p + r + s, 2q)$
- B. $(p + r + s, q)$
- C. $(2p + 2s, 2q)$
- D. $(2r, 2q)$

For the parallelogram, find coordinates for P without using any new variables.

- A. $(a + c, b)$
- B. $(a - c, c)$
- C. (c, a)
- D. (c, b)