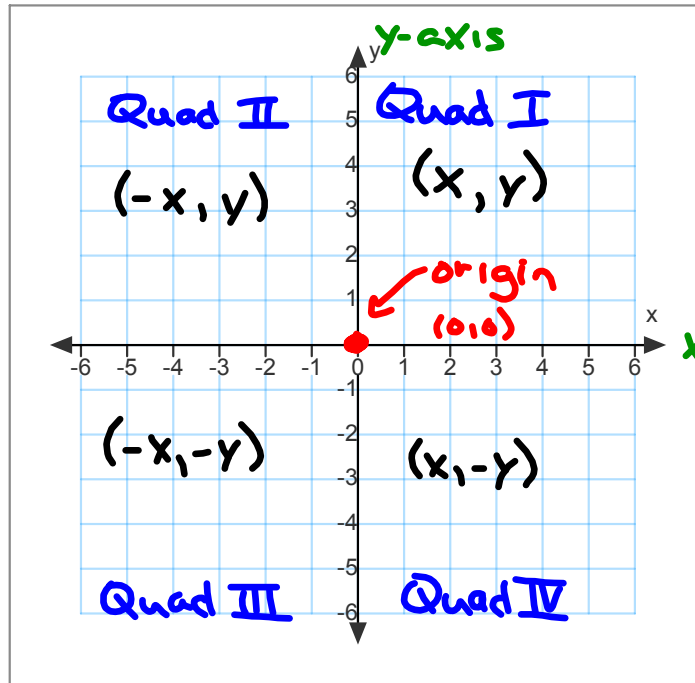


# Section 1.1 Coordinate Plane

Obj: Graph coordinates on a plane.

## Ordered Pair



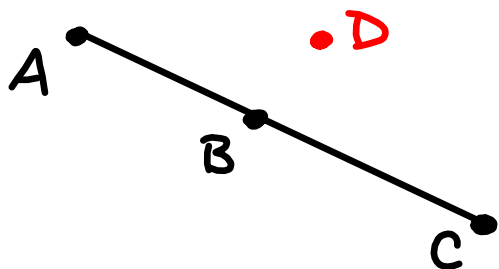
$(x, y)$

Directed Distance From the y-axis

Directed Distance From x-axis

Collinear

Points located on the same line.



Point A, B, and C are collinear

Given  $y = 3x + 1$ , determine if  $(0, 1)$ ,  $(4, 13)$  and  $(-2, 3)$  are collinear.

$$(0, 1) \rightarrow 1 = 3(0) + 1 \rightarrow 1 = 1$$

$$(4, 13) \rightarrow 13 = 13$$

$$(-2, 3) \rightarrow -3 \neq -5$$

Noncollinear

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1-4 all

12-29 all

32, 35