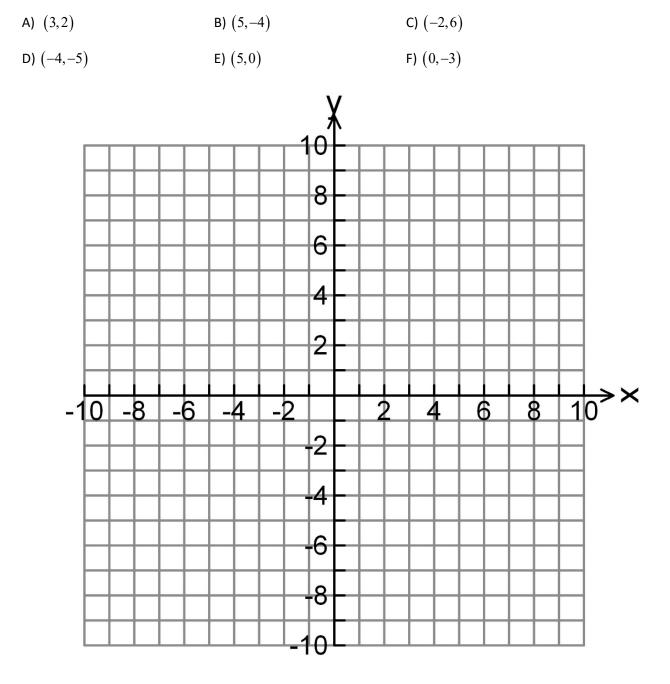
Section 2.1: Rectangular Coordinates and Graphs

Video 1

1) Plot these points on the same x-y plane.



Video 2

2) Find the distance between the two points. Find the exact answer, and approximate to the nearest tenth if necessary.

a) (3,6) and (8,18)

b) $\left(-5,2\right)$ and $\left(-3,-10\right)$

3) Do these three points form a right triangle?

A)
$$(-3,-5)$$
 B) $(2,-2)$ C) $(-7,0)$

4) Are these three points collinear?

A) (-1,6)	B) (1,4)	C) (9,-4)
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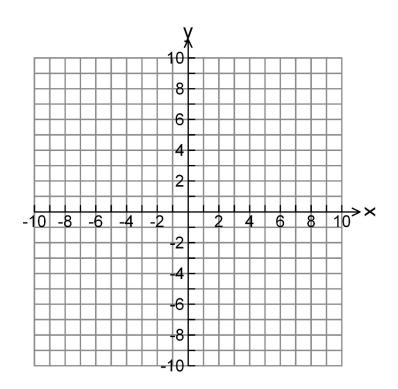
Video 3

5) Find the midpoint of the line segment whose endpoints are (2,-7) and (-5,-13).

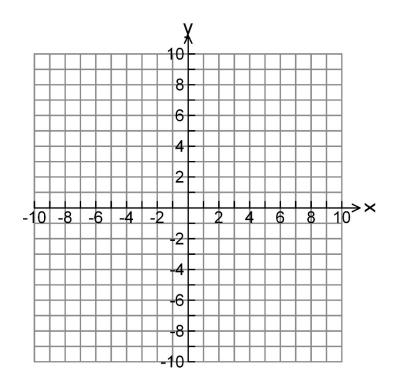
6) The line segment from A to B has a midpoint of (2,-9). If the coordinates of A are (7,-6), find the coordinates of B.

Video 4

7) For the equation y = 2x - 6, find the intercepts, three other ordered pair solutions, and graph each equation.



8) For the equation $x = \sqrt{y+2}$, find the intercepts, three other ordered pair solutions, and graph each equation.



9) For the equation $y = x^2 - 9$, find the intercepts, three other ordered pair solutions, and graph each equation.

