

Precalculus

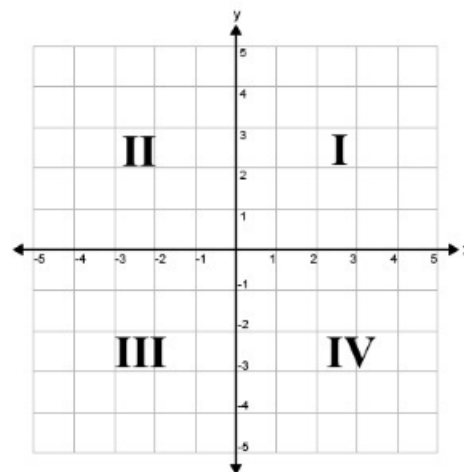
1-01 The Cartesian Plane

Cartesian Plane

- _____ quadrants
- Point is _____

Graph A(3, 2)

Graph B(-1, 4)



Distance formula

- _____ Theorem
- $a^2 + b^2 = c^2$
- $(x_2 - x_1)^2 + (y_2 - y_1)^2 = d^2$

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Midpoint formula

- _____ of the points (mean)

$$M = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

Find the (a) distance and (b) midpoint between (-1, 3) and (2, -5)