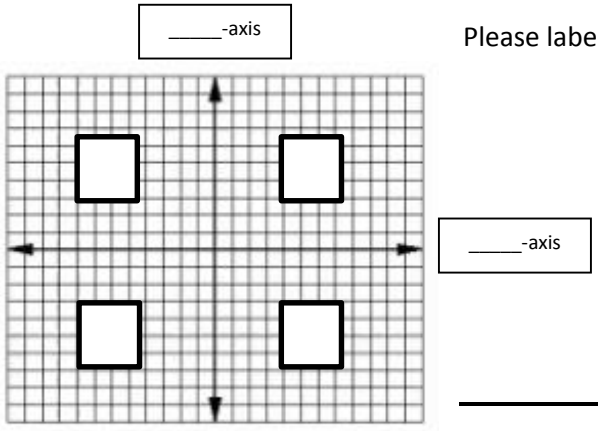
Math 132 – Trigonometry Name_____
Section 1.1 Video Worksheet – 9th Edition

Cartesian Plane Distance Midpoint



Please label the axes and Quadrants. Dot the Origin

Origin – (____,____)

(x,____)

(_____, Ordinate)

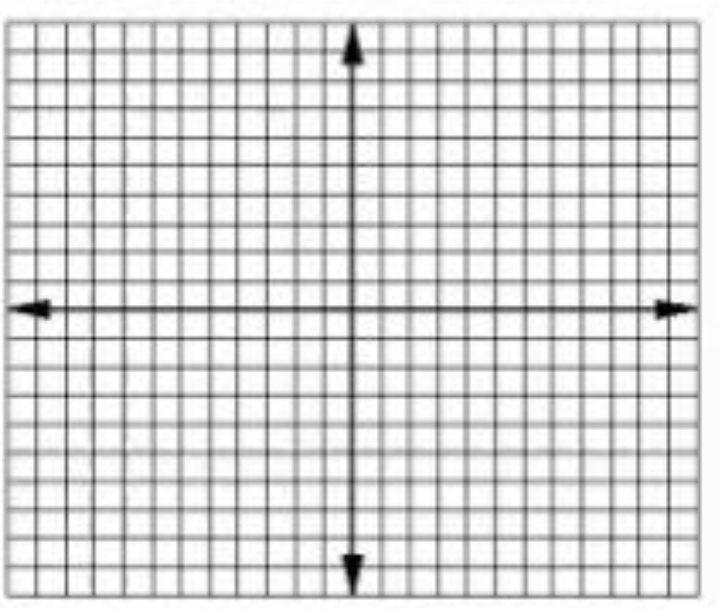
Formulas

- Distance = $\sqrt{\quad\quad\quad\quad\quad\quad}$
  - Note that x_1 and x_2 are actually two different given axis coordinates on the same axis, likewise with y_1 and y_2.

- Midpoint: $\left(\frac{\quad}{\quad}, \frac{\quad}{\quad}\right)$

Please plot the following points and indicate which quadrant each point is in.

- A = (-3, 2)
- B = (6, 0)
- C = (-2, -2)
- D = (6, 5)
- E = (0, -3)
- F = (6, -3)



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Please find the distance of these points' line segments

- (-3,2), (6, 0)
- (4, -3), (6,4)
- (a,b), (0,0)
- (2, -3), (4, 2)
- (-4, -3), (6, 2)

Please find the midpoint between the line segments created by these points, and draw any one of these lines and their three points on the a graph below.

- (-3,2), (6,0)
- (4, -3), (6,1)
- (a,b), (0,0)
- (2, -3), (4, 2)
- (-4, -3), (2, 2)