Name: Schlansky

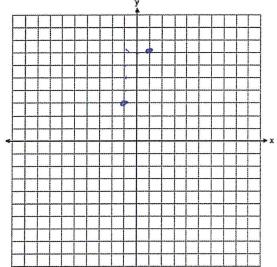
Mr. Schlansky

Date: _____ Geometry

Slope/Distance/Midpoint Review

For the following sets of coordinates, find:

- a) the slope
- b) the midpoint
- c) the distance
- 1. (-1,3) and (1,7)

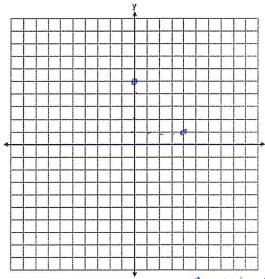


$$m = \frac{19}{12}$$
 $m = \frac{19}{12}$
 $m = \frac{11}{12}$
 $m = \frac{11}{12}$

$$d = \sqrt{3^{2} + 4^{2}}$$

$$d = \sqrt{3^{2} + 4^{2}}$$

$$d = \sqrt{9^{2} + 4^{2}}$$



$$m = \frac{1}{2}$$
 $m = \frac{1}{2}$
 $m = \frac{1}{2}$

$$d = \sqrt{4^{2} + 4^{2}}$$

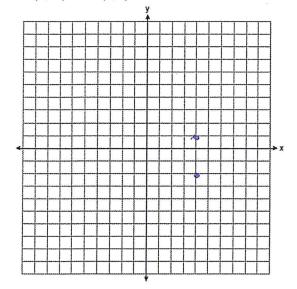
$$d = \sqrt{4^{2} + 4^{2}}$$

$$d = \sqrt{10 + 16}$$

$$d = \sqrt{32}$$

$$d = \sqrt{4}$$

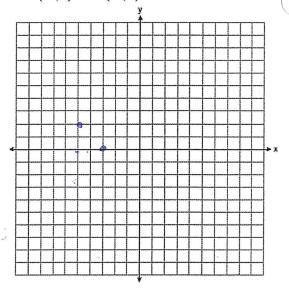
$$d = \sqrt{4}$$



$$M = \frac{\sqrt{3}}{\sqrt{2}}$$

$$m=\frac{3}{6}$$

$$d = \sqrt{0^2 + 3^2}$$
 $d = \sqrt{0+9}$



$$m = \frac{\sqrt{9}}{\sqrt{3}}$$

$$m=\frac{-2}{2}$$

d=J1x2+1g2

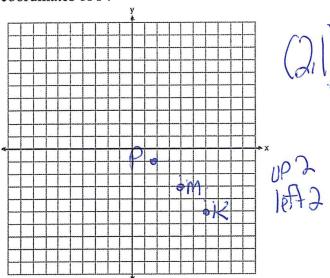
d=J2º+22

d=J444

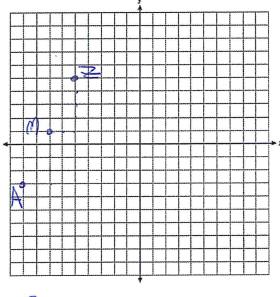
d=58

0=252

5. The midpoint M of \overline{KP} is (4,-3). If the coordinates of K are (6, -5), what are the coordinates of P?



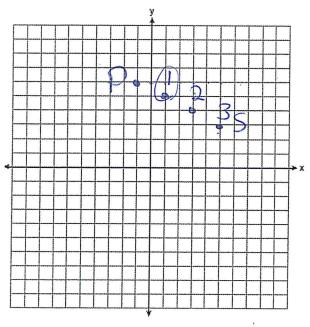
6. The midpoint M of \overline{AZ} is (-7,1). If the coordinates of Z are (-5, 5), what are the coordinates of A?

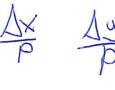


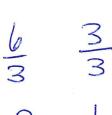
down 4 left 2

(-9,-3)

7. What are the coordinates of the point on the directed line segment from P(-1,6) to S(5,3) that partitions the segment into a ratio of 1 to 2?









8. Directed line segment JK has endpoints whose coordinates are J(8,6) and (-10,-3). Determine the coordinates of point O that divides the segment in the ratio 5 to 4.

