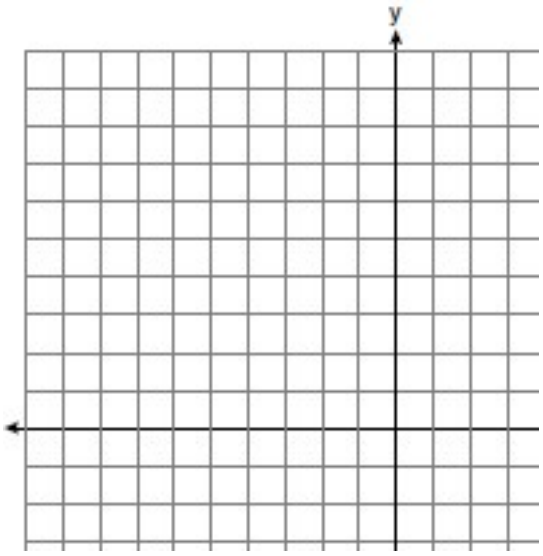
Name: _____ Date: _____
Mr. Schlansky Geometry

Slope/Distance/Midpoint Review

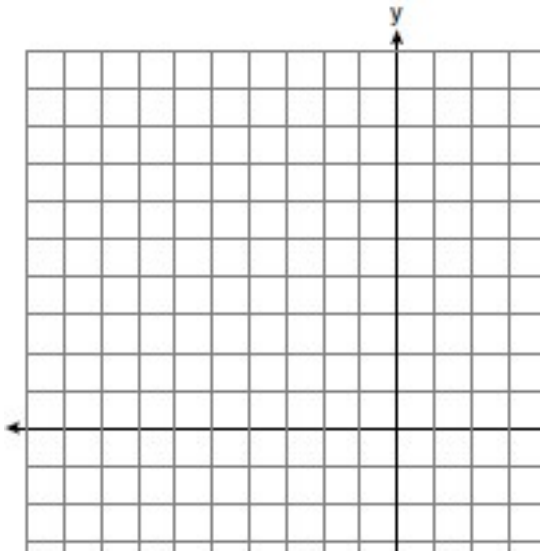
For the following sets of coordinates, find:

a) the slope
b) the midpoint
c) the distance

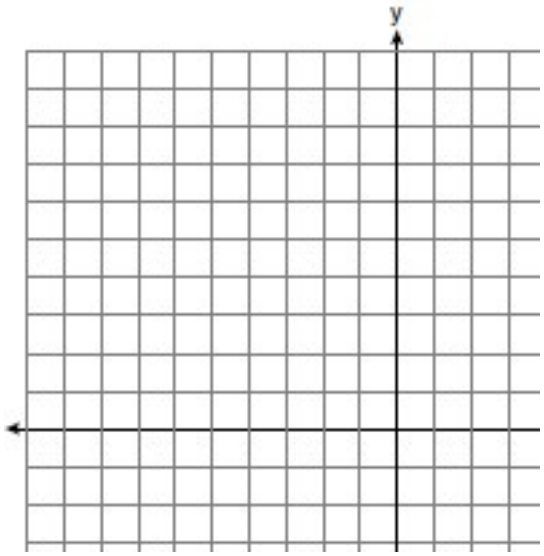
1. (-1,3) and (1,7)



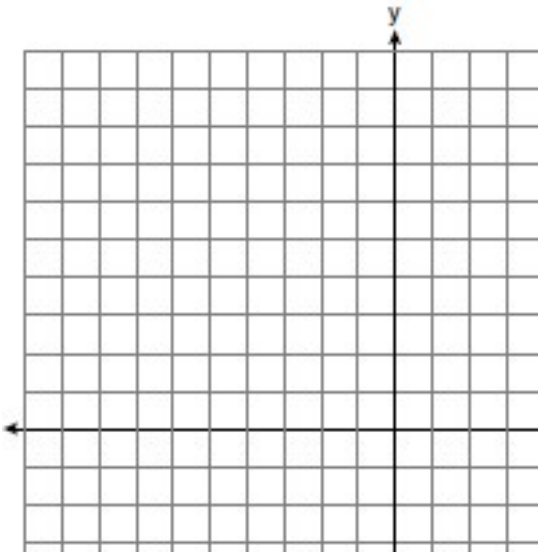
2. (4,1) and (0,5)



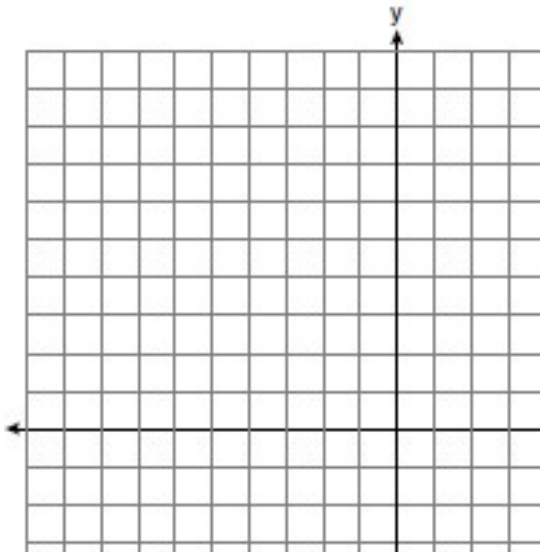
3. (4,-2) and (4,1)



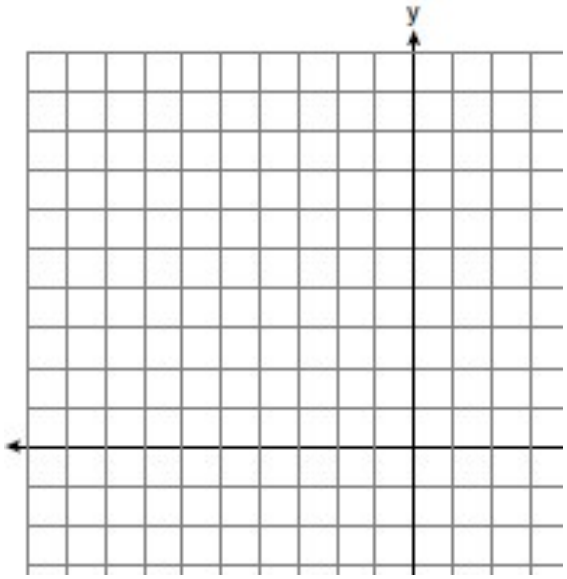
4. (-5,2) and (-3,0)



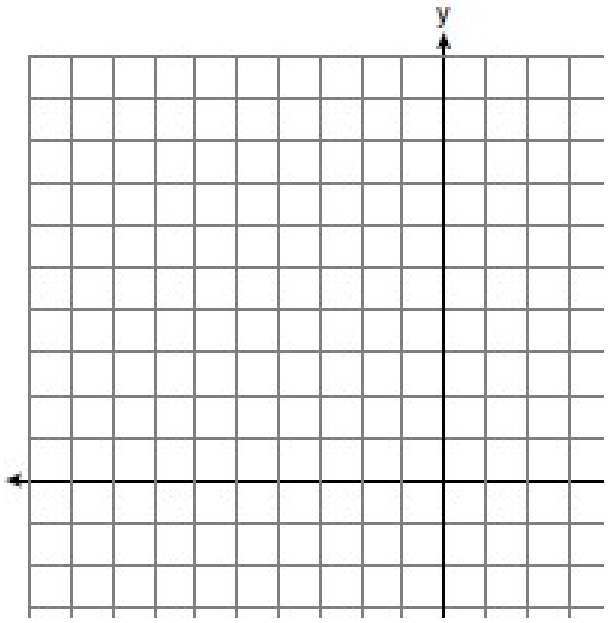
5. The midpoint M of $\overline{KP}$ is (4,-3). If the coordinates of K are (6, -5), what are the coordinates of P?



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



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 $Q(-10,-3)$. Determine the coordinates of point *O* that divides the segment in the ratio 5 to 4.