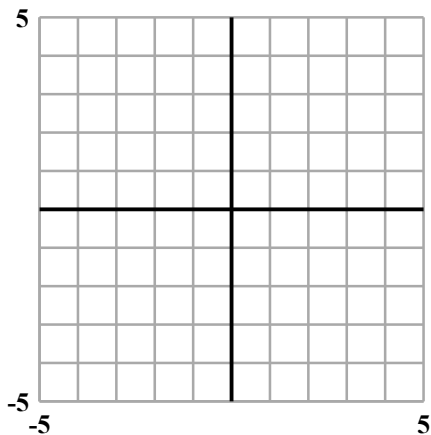


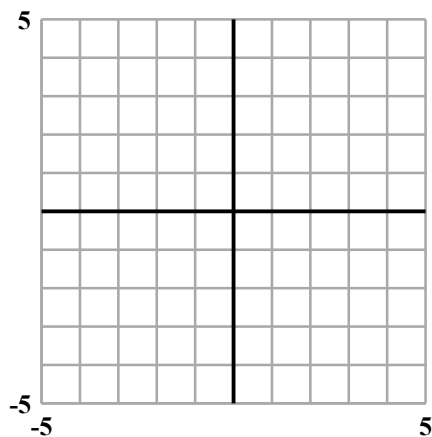
Lines, Segments, Graphing, & Equations
September 3, 2008

Name _____

1. Plot the points: $A : (3, 4)$ $B : (-2, 1)$ then
 Calculate the length of \overline{AB}

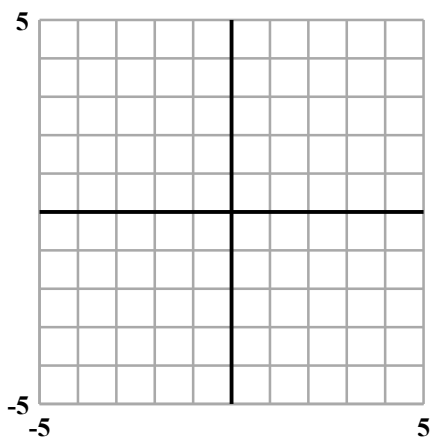


2. Plot the points: $C : (-5, 2)$ $D : (3, -4)$.
 The midpoint of \overline{CD} is $(-1, -1)$.
 Mark the coordinates of 7 points that
 are 5 units from the midpoint.

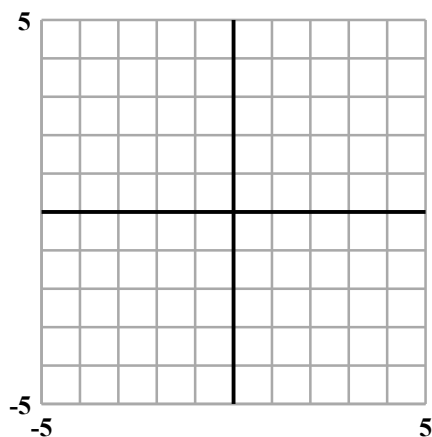


Graph each of the following lines.

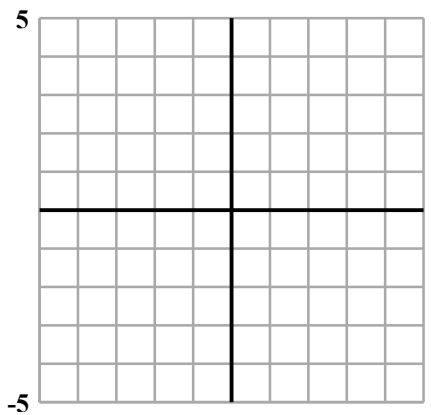
3. $y = -\frac{2}{3}x + 1$



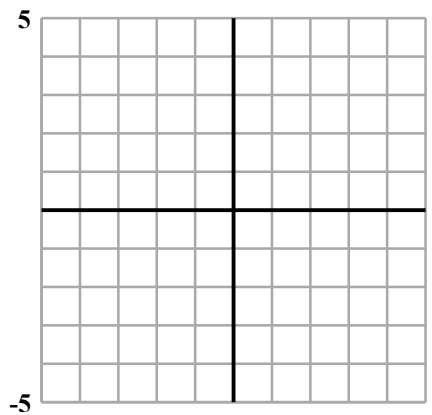
4. $5x - 2y = 10$



3. $y = -\frac{1}{2}x + \frac{5}{2}$

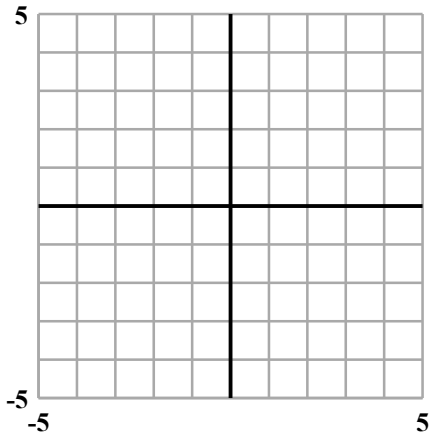


4. $y - 1 = \frac{1}{4}(x - 2)$

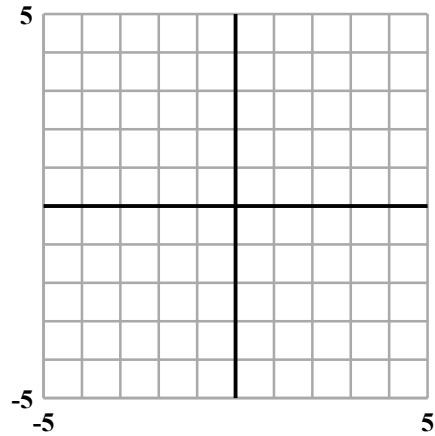


Plot each the given points, draw a line through the points, then write the equation of the line you drew.

7. $(-3,0)$ & $(0,2)$

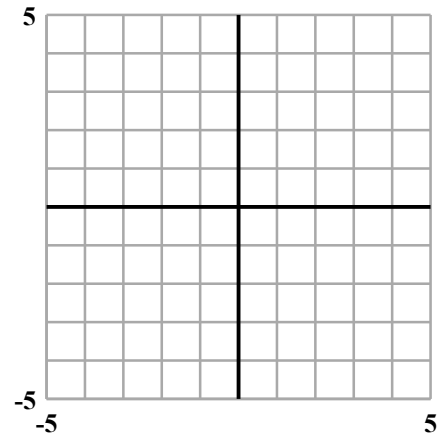


8. $(-1,4)$ & $(5,-2)$



Sketch the graph of each line. In each case, label the origin point O , label the y -intercept point B , and label the x -intercept point A . Finally, calculate the area and perimeter of triangle AOB .

9. $y = -\frac{4}{3}x + 4$



10. $\frac{3}{2}x - \frac{3}{4}y = 3$

