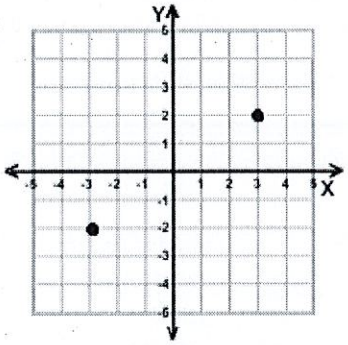
Practice Quiz

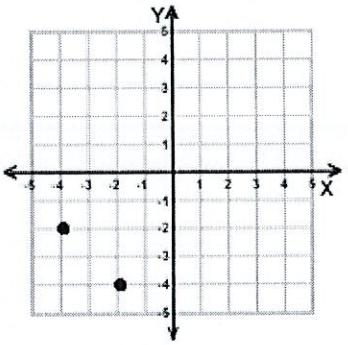
Name_____

Find the equation of the line of reflection.

1)



2)



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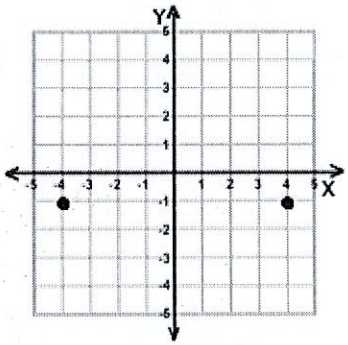

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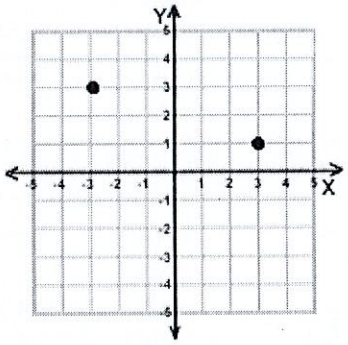

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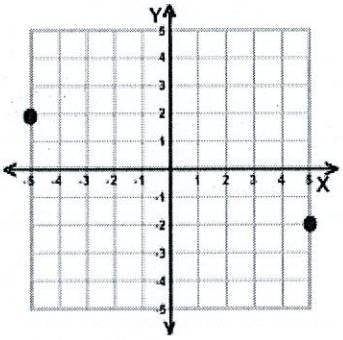

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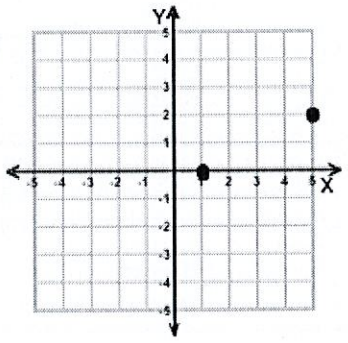

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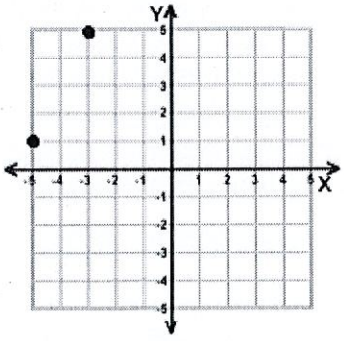

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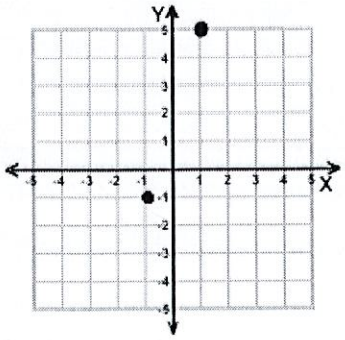


Practice Quiz Name_____

For each linear equation write the slope of a line parallel to the given line.

9. $y = 2x + 4$

10. $2x + 4Y = 8$

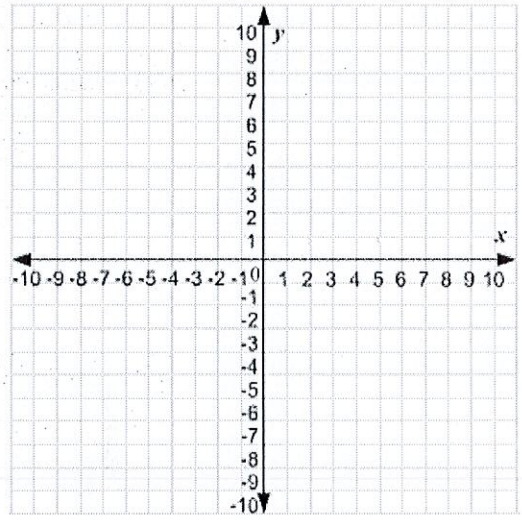
For each linear equation write the slope of a line perpendicular to the given line.

11. $y = -5x + 1$

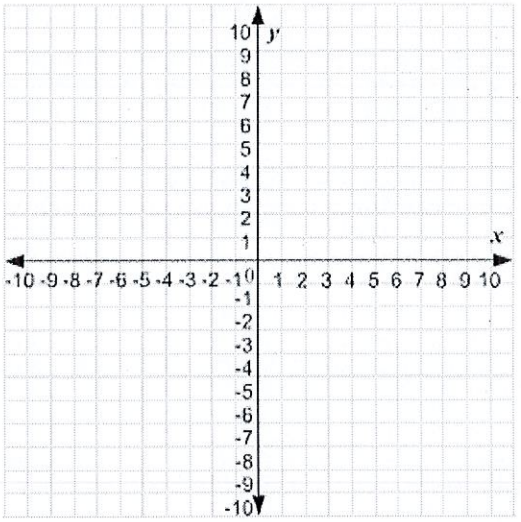
12. $7y + 4x = 3$

Find the slope and the distance between each pair of points.

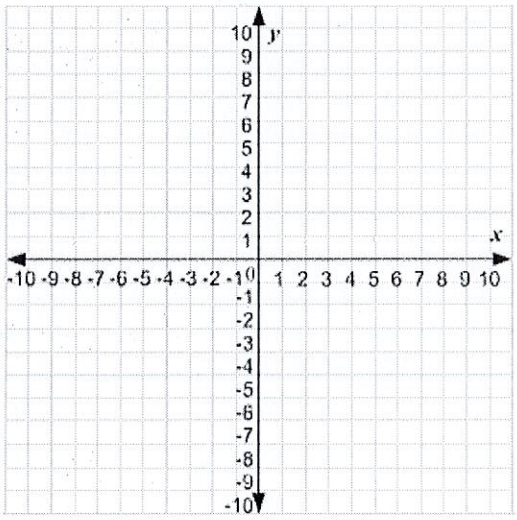
13. (-4, -1) (6,7) Slope_____Distance_____



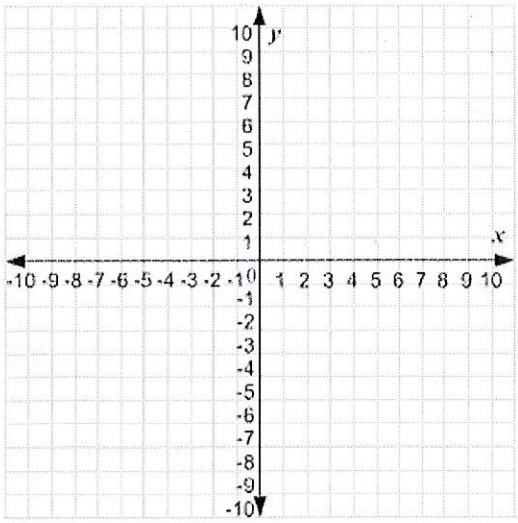
14. (-1,1) (3,4) Slope_____Distance_____



15. (-5, 5) (1,-2) Slope_____Distance_____



16. (-2,4) (0,3) Slope_____Distance_____

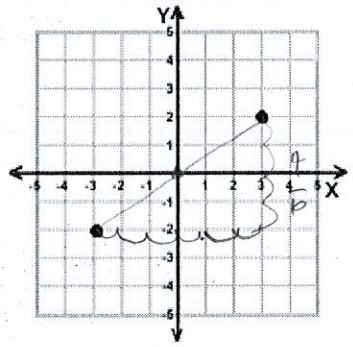


Practice Quiz

Name Answers

Find the equation of the line of reflection.

1)

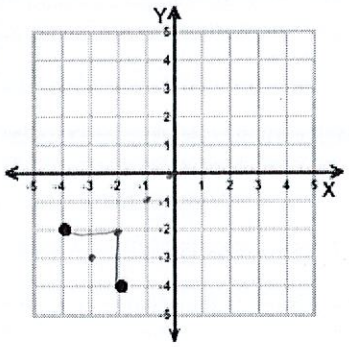


$m = \frac{2}{3}$

$m = -\frac{3}{2}$

$y = -\frac{3}{2}x$

2)

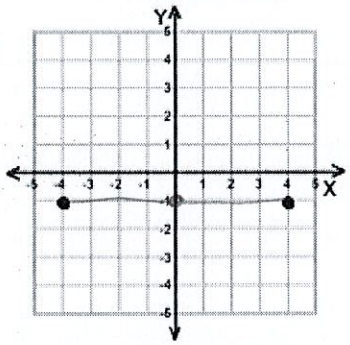


$m = \frac{-2}{2} = \frac{-1}{1}$

$m = -1$

$y = x$

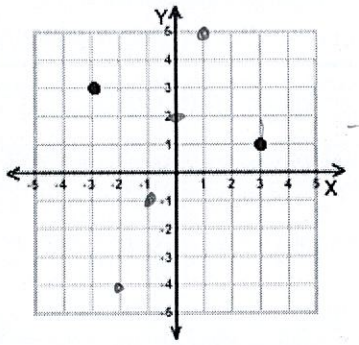
3)



$m = 0$

$m =$ undefined slope

4)

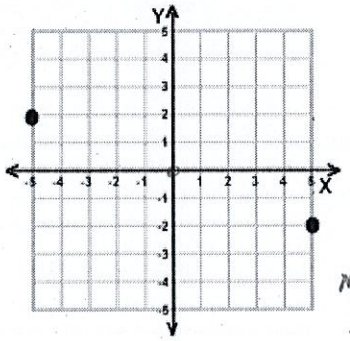


$-\frac{2}{6} = -\frac{1}{3}$

$m = 3$

$y = 3x + 2$

5)

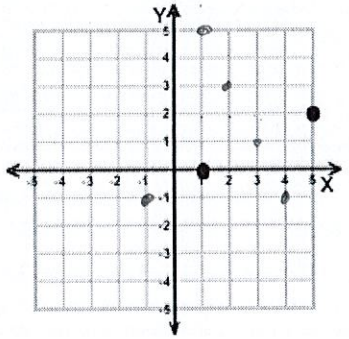


$-\frac{4}{-10} = \frac{2}{5}$

$m = \frac{5}{2}$

$y = \frac{5}{2}x$

6)

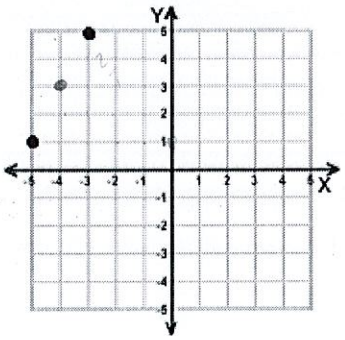


$m = \frac{2}{4} = \frac{1}{2}$

$m = -2$

$y = -2x + 7$

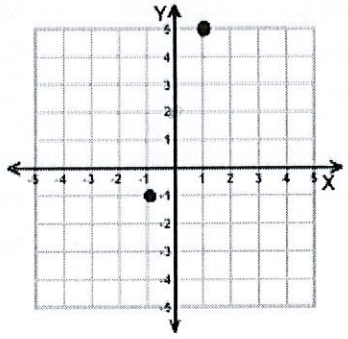
7)



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

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

8)



$m = \frac{3}{1}$

$m = -\frac{1}{3}$

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

Practice Quiz Name_____

For each linear equation write the slope of a line parallel to the given line.

7. y = 2x + 4 answers will vary

$y = 2x - 2$

8. 2x + 4Y = 8

$-2x \quad -2x$

$\frac{4y}{4} = \frac{-2x}{4} + \frac{8}{4}$

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

$y = -\frac{1}{2}x$

For each linear equation write the slope of a line perpendicular to the given line.

9. y = -5x + 1 answers will vary

$y = \frac{1}{5}x$

10. 7y + 4x = 3

$-4x \quad -4x$

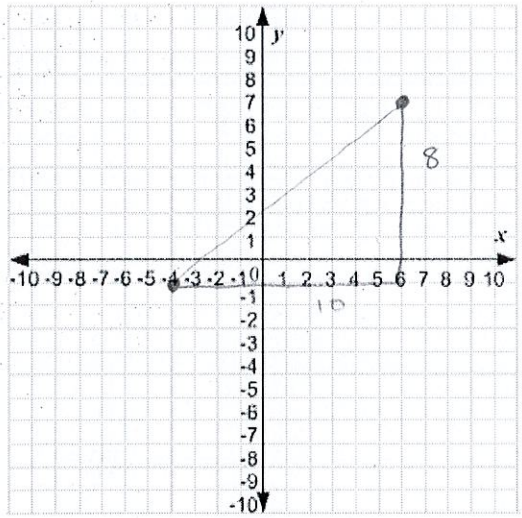
$\frac{7y}{7} = \frac{-4x}{7} + \frac{3}{7}$

$y = -4/7 + 3/7$

$y = \frac{7}{4}x$

Find the slope and the distance between each pair of points.

11. (-4, -1) (6,7) Slope $\frac{4}{5}$ Distance 12.8 or $\sqrt{164}$



$m = \frac{8}{10} = \frac{4}{5}$

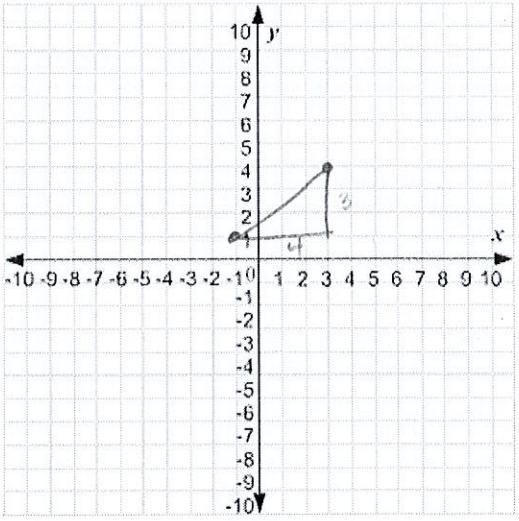
$8^2 + 10^2 = c^2$

$64 + 100 = c^2$

$\sqrt{164} = c$

$12.8 = c$

12. (-1,1) (3,4) Slope $\frac{3}{4}$ Distance 5



$3^2 + 4^2 = c^2$

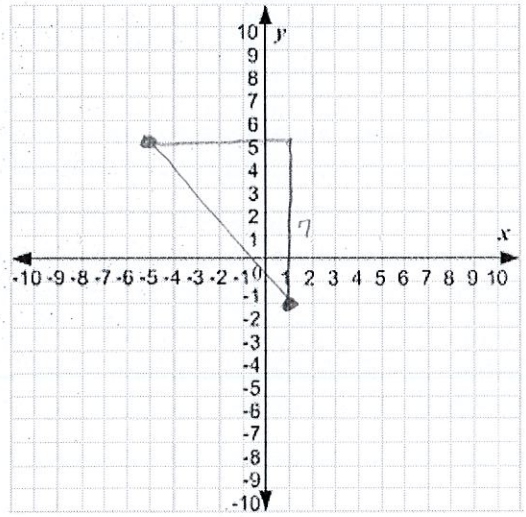
$9 + 16 = c^2$

$25 = c^2$

$\sqrt{25} = c$

$5 = c$

13. (-5, 5) (1,-2) Slope $-\frac{7}{6}$ Distance 9.2



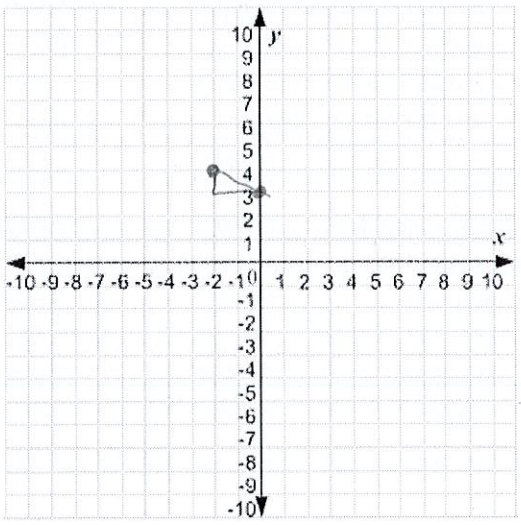
$6^2 + 7^2 = c^2$

$36 + 49 = c^2$

$85 = c^2$

$9.2 = c$

14. (-2,4) (0,3) Slope $-\frac{1}{2}$ Distance 2.23 or $\sqrt{5}$



$1^2 + 2^2 = c^2$

$1 + 4 = c^2$

$5 = c^2$