

Quiz 9 Practice

Date _____ Period _____

Solve each proportion. Show the equation that result from the cross products, then solve the equation. Use a calculator as needed, and give answers in decimal form for some problems.

1) $\frac{8}{k} = \frac{4}{9}$

2) $\frac{3}{4} = \frac{v}{6}$

3) $\frac{10}{2} = \frac{x-5}{7}$

4) $\frac{p-3}{9} = \frac{7}{6}$

5) $\frac{10}{v+1} = \frac{7}{v}$

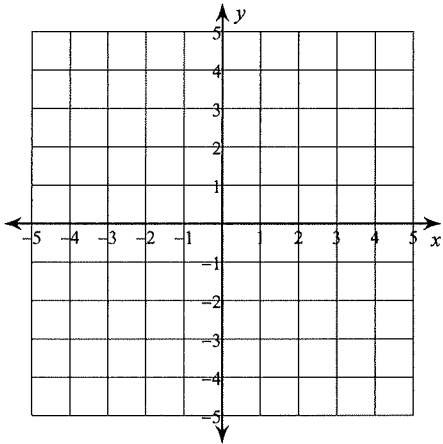
6) $\frac{3}{7} = \frac{x}{x-1}$

7) $\frac{p-8}{3} = \frac{p-8}{9}$

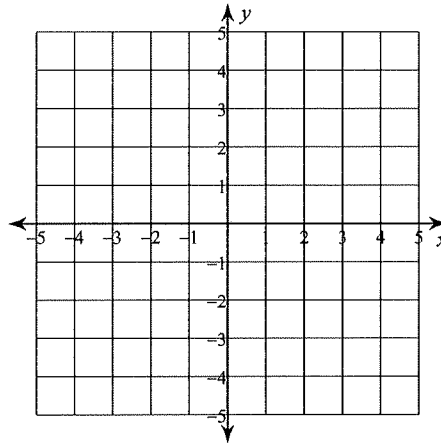
8) $\frac{r+1}{r-2} = \frac{9}{4}$

Solve each system by graphing.

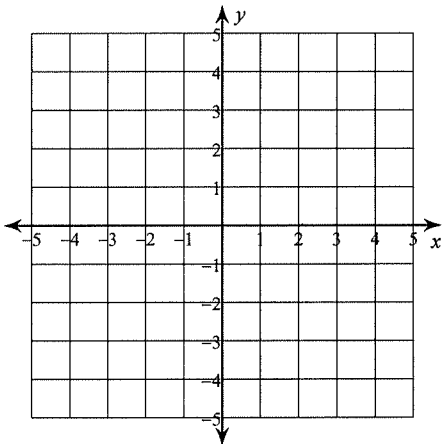
9) $y = -3x - 4$
 $y = 5x + 4$



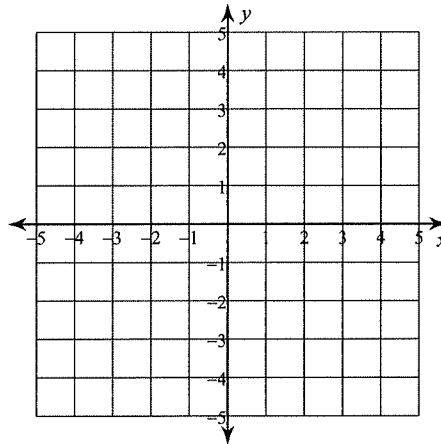
10) $y = \frac{3}{2}x + 4$
 $y = -\frac{1}{2}x - 4$



11) $x + 9 = -3y$
 $0 = 6 - 2x - 6y$



12) $0 = y + 1 + 4x$
 $x + 4 - y = 0$



Solve each system by substitution.

13) $y = -2$
 $5x - 8y = -14$

14) $5x - 6y = 13$
 $y = 2x - 1$

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Date _____ Period _____

Solve each proportion. Show the equation that result from the cross products, then solve the equation. Use a calculator as needed, and give answers in decimal form for some problems.

1) $\frac{8}{k} = \frac{4}{9}$

{18}

2) $\frac{3}{4} = \frac{v}{6}$

{4.5}

3) $\frac{10}{2} = \frac{x-5}{7}$

{40}

4) $\frac{p-3}{9} = \frac{7}{6}$

{13.5}

5) $\frac{10}{v+1} = \frac{7}{v}$

{2.33}

6) $\frac{3}{7} = \frac{x}{x-1}$

{-0.75}

7) $\frac{p-8}{3} = \frac{p-8}{9}$

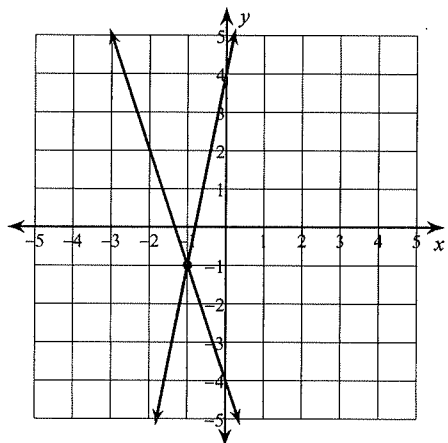
{8}

8) $\frac{r+1}{r-2} = \frac{9}{4}$

{4.4}

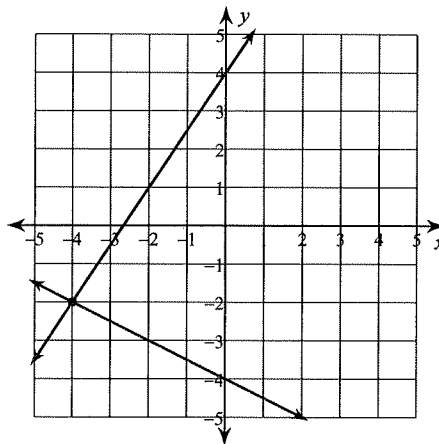
Solve each system by graphing.

9) $y = -3x - 4$
 $y = 5x + 4$



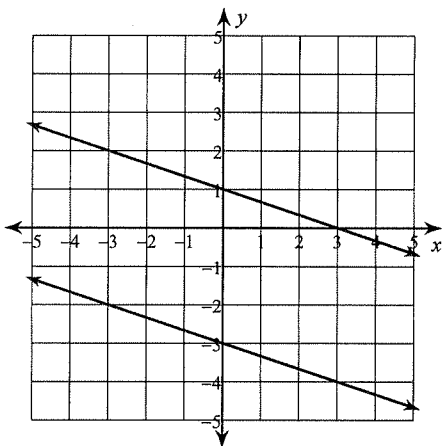
$(-1, -1)$

10) $y = \frac{3}{2}x + 4$
 $y = -\frac{1}{2}x - 4$



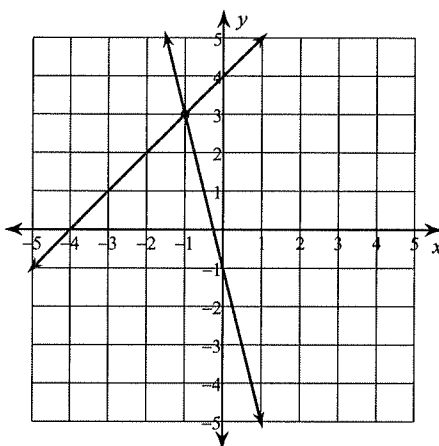
$(-4, -2)$

11) $x + 9 = -3y$
 $0 = 6 - 2x - 6y$



No solution

12) $0 = y + 1 + 4x$
 $x + 4 - y = 0$



$(-1, 3)$

Solve each system by substitution.

13) $y = -2$
 $5x - 8y = -14$
 $(-6, -2)$

14) $5x - 6y = 13$
 $y = 2x - 1$
 $(-1, -3)$