

Quiz 10 Practice

Work the ODDS first!

Date _____ Period _____

Solve each proportion. Use a calculator and expect some decimal answers!

1) $\frac{5}{3} = \frac{8}{p}$

2) $\frac{3r}{6} = \frac{6}{3}$

3) $\frac{6}{7k-5} = \frac{10}{4}$

4) $\frac{3x-7}{5} = \frac{4}{10}$

5) $\frac{m-5}{m} = \frac{9}{3}$

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

7) $\frac{4}{7r-10} = \frac{7}{3r+5}$

8) $\frac{3}{8} = \frac{n-5}{3n-5}$

Answer each question and round your answer to the nearest whole number.

9) Nicole enlarged the size of a triangle to a width of 8 in. What is the new height if it was originally 2 in wide and 4 in tall?

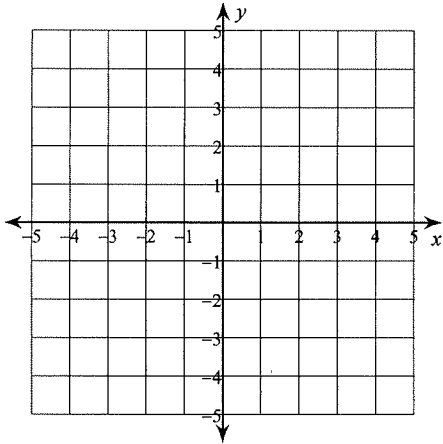
10) A model power plant is 4 cm tall. If it was built with a scale of 1 cm : 3 m, then how tall is the real power plant?

11) A map has a scale of 1 in : 18 mi. If Fairview and San Jose are 108 mi apart, then they are how far apart on the map?

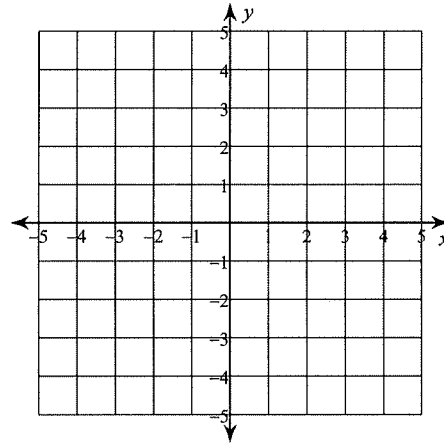
12) An adult elephant that is 10 ft tall casts a shadow that is 18 ft long. Find the height of a baby elephant that casts a 9 ft shadow.

Solve each system by graphing.

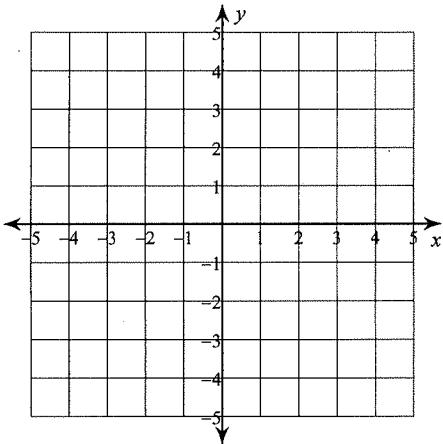
13) $y = x + 1$
 $y = -x - 3$



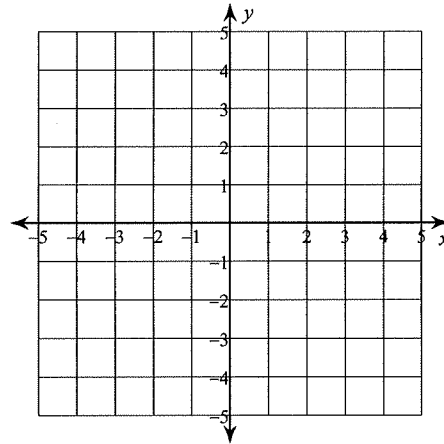
14) $y = -x - 2$
 $y = \frac{1}{4}x + 3$



15) $-x = 12 + 4y$
 $-8 + 4x = -2y$



16) $6 = -3y + 5x$
 $-6 = 3y - 5x$



Solve each system by substitution.

17) $2x + 4y = -20$
 $y = -2x - 5$

18) $2x - 3y = 15$
 $y = x - 5$

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Date _____ Period _____

Solve each proportion. Use a calculator and expect some decimal answers!

1) $\frac{5}{3} = \frac{8}{p}$
{4.8}

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

3) $\frac{6}{7k-5} = \frac{10}{4}$
{1.06}

4) $\frac{3x-7}{5} = \frac{4}{10}$
{3}

5) $\frac{m-5}{m} = \frac{9}{3}$
{-2.5}

6) $\frac{x}{7x-5} = \frac{5}{2}$
{0.76}

7) $\frac{4}{7r-10} = \frac{7}{3r+5}$
{2.43}

8) $\frac{3}{8} = \frac{n-5}{3n-5}$
{-25}

Answer each question and round your answer to the nearest whole number.

- 9) Nicole enlarged the size of a triangle to a width of 8 in. What is the new height if it was originally 2 in wide and 4 in tall?

16 in

- 10) A model power plant is 4 cm tall. If it was built with a scale of 1 cm : 3 m, then how tall is the real power plant?

12 m

- 11) A map has a scale of 1 in : 18 mi. If Fairview and San Jose are 108 mi apart, then they are how far apart on the map?

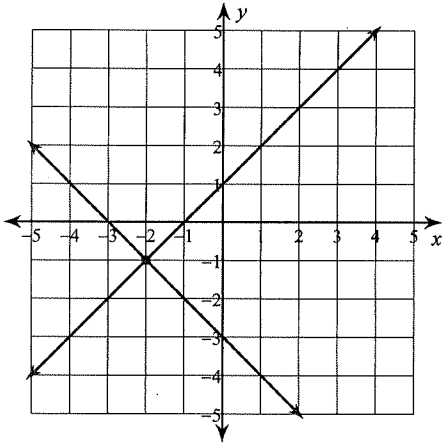
6 in

- 12) An adult elephant that is 10 ft tall casts a shadow that is 18 ft long. Find the height of a baby elephant that casts a 9 ft shadow.

5 ft

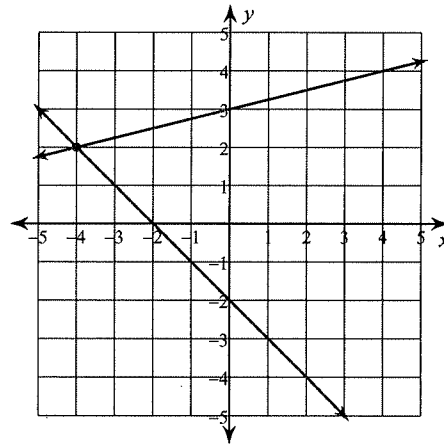
Solve each system by graphing.

13) $y = x + 1$
 $y = -x - 3$



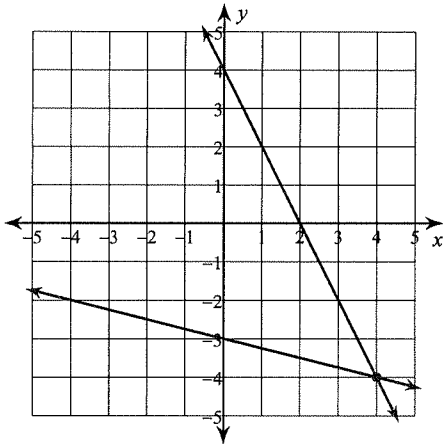
$(-2, -1)$

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



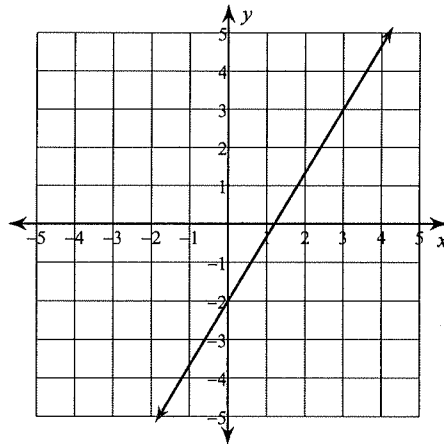
$(-4, 2)$

15) $-x = 12 + 4y$
 $-8 + 4x = -2y$



$(4, -4)$

16) $6 = -3y + 5x$
 $-6 = 3y - 5x$



Infinite number of solutions

Solve each system by substitution.

17) $2x + 4y = -20$
 $y = -2x - 5$

$(0, -5)$

18) $2x - 3y = 15$
 $y = x - 5$

$(0, -5)$