

Summer Packet Geometry CP

Name: _____

Due the 1st day of school!!!!

Please show all work on the space provided. Be sure to circle your answers.

Solve each equation.

1) $3x - 6x = -15$

2) $x - 7 - 3 = -12$

3) $-2(-8b - 2) = 84$

4) $147 = -5(1 + 5m) + 6m$

5) $-6(n - 6) - 3(n - 4) = 21$

6) $-7 + r - 7 + 5r = 8 - 5r$

7) $3 - 3p = -7p + 7$

8) $38 + 8r = -8(6 - 6r) + 3r$

9) $-8x - 7(7x + 5) = -4x - 35$

10) $3(-5x - 5) + x = 3 - 2(x + 3)$

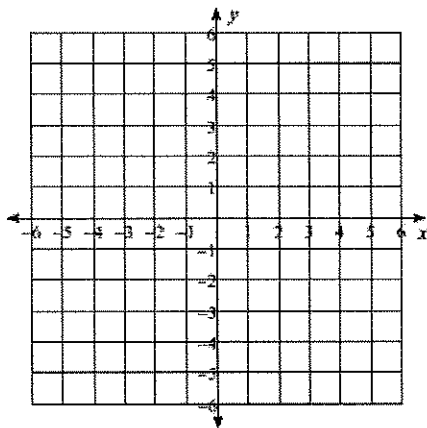
Solve each proportion.

$$11) \frac{11a - 11}{7} = \frac{14}{11}$$

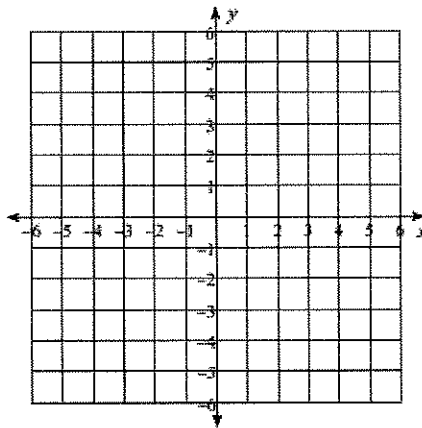
$$12) \frac{5b - 5}{16} = \frac{11}{20}$$

Sketch the graph of each line.

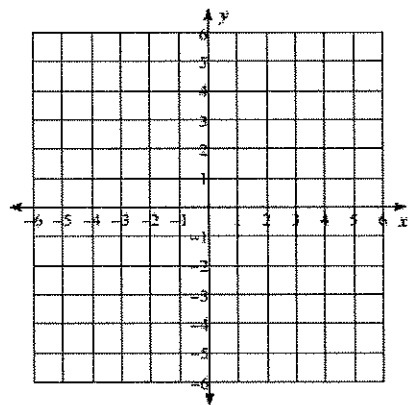
$$13) y = -x + 2$$



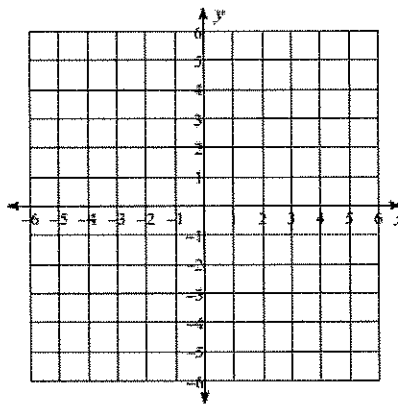
$$14) y = x$$



$$15) 6x - 5y = 5$$



$$16) 3x - y = -4$$



Evaluate each expression for the indicated variables.

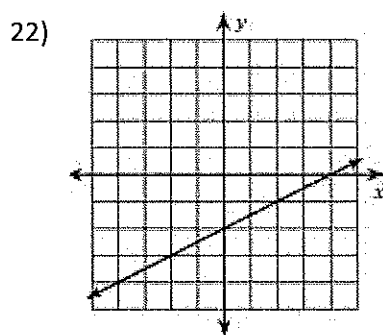
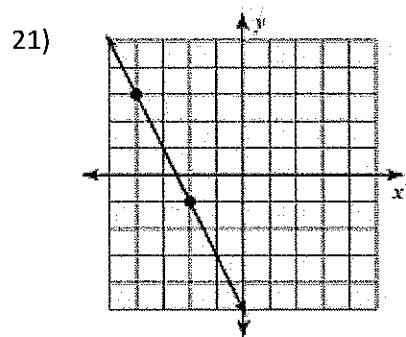
$$17) k(h + h) - \frac{h}{3}; \text{ use } h = -3, \text{ and } k = 6$$

$$18) \left(\frac{a}{3}\right)^3 - (c - b); \text{ use } a = 3, b = -1, \text{ and } c = 6$$

19) $j - 4 + h - |j|$; use $h = 1$, and $j = 6$

20) $(y + y)^2 + x + x$; use $x = -4$, and $y = -1$

Find the slope of the line.

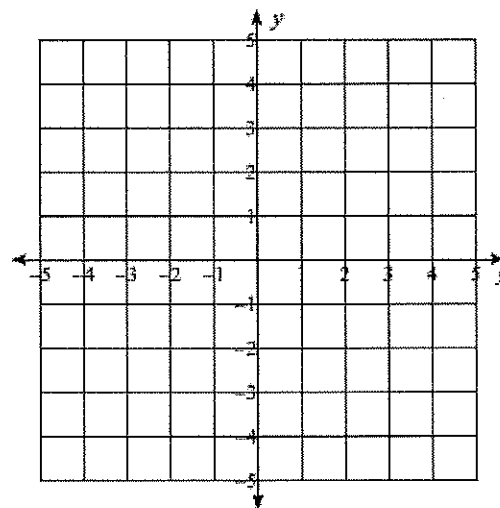
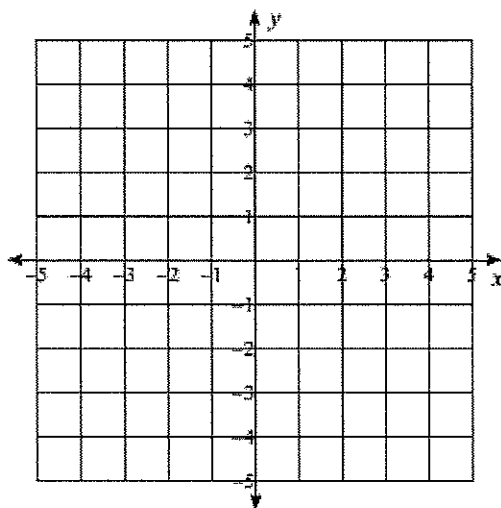


23) $y = \frac{1}{4}x + 3$

Solve each system by graphing.

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

25) $y = x - 3$
 $y = -\frac{5}{2}x + 4$



Solve each system by elimination.

$$\begin{aligned} 26) \quad & -5x - 9y = -9 \\ & 10x + 18y = 14 \end{aligned}$$

$$\begin{aligned} 27) \quad & -8x + 7y = -24 \\ & -6x + 9y = 12 \end{aligned}$$

Solve each system by substitution.

$$\begin{aligned} 28) \quad & 6x - 4y = 2 \\ & y = -2x + 10 \end{aligned}$$

$$\begin{aligned} 29) \quad & -7x - 2y = -13 \\ & x - 2y = 11 \end{aligned}$$