Review

Intro to Math 2

Name _____

1) Solve the equation: $\frac{x}{6} = 8$

2) Solve the equation: $3w + 7 = 19$

3) Solve the equation: $5h + 2(11 - h) = -5$

4) Solve the equation: $5x + 2 = 5x - 1$

5) Solve the equation: $|d| = 23$

1) _____

2) _____

3) _____

4) _____

5) _____

6) Solve the equation: $|4p + 2| + 8 = 11$

7) Solve for y: $20x + 5y = 15$

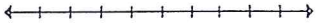
8) Graph the inequality: $5 > x + 3$

9) Solve the inequality: $-9x \leq 18$

10) Graph the compound inequality: $8 \leq 3x - 1 < 14$

6) _____

7) _____

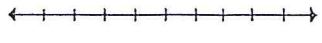


8) _____

9) _____

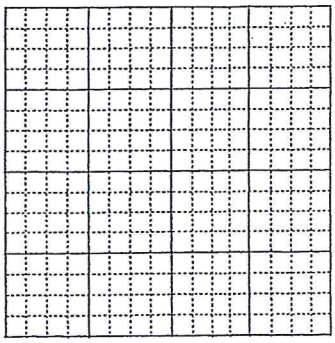
10) _____

11) Graph the inequality: $|x| > 7$



11) _____

12) Graph the linear function: $y = \frac{2}{3}x - 1$



12) _____

13) Evaluate the function $f(x) = 4x - 11$ for $x = 7$

13) _____

14) Find the value of x so that the function has the given value:

$f(x) = 4x + 15\,; f(x) = 7$

14) _____

15)

15) Find the intercepts: $4x - 3y = 12$

16) Find the slope of the line through the points $(4, 10)$ and $(7, 6)$

17) Write a slope-intercept equation of the line through the points $(2, 7)$ and $(0, -5)$

18) Write an equation of the line that passes through the point: $(-8, -2)$ and has the given slope: $m = 5$

19) Write an equation of the line through the points $(-5, 19)$ and $(5, 13)$

20) Write an equation of the line that passes through the point $(2, -5)$ and is parallel to the line: $y = \frac{3}{2}x + 5$

16) _____

17) _____

18) _____

19) _____

20) _____

21) Sketch a scatterplot that shows a strong, positive correlation.

22) Solve by graphing:

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

$y = 2x + 5$

23) Solve with substitution:

$3x - 4y = 13$

$y = 4x$

24) Solve with elimination:

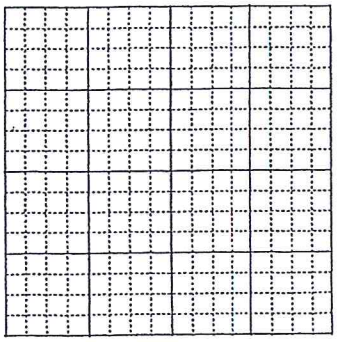
$-9x - 4y = -21$

$7x + 4y = 19$

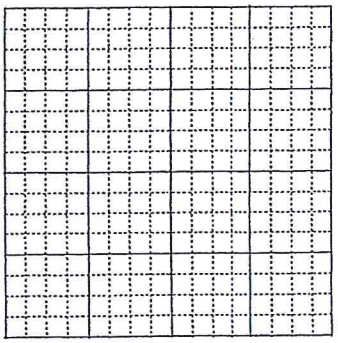
25) Solve the system:

$-15x + 18y = 12$

$15x - 18y = -12$



21) _____



22) _____

23) _____

24) _____

25) _____

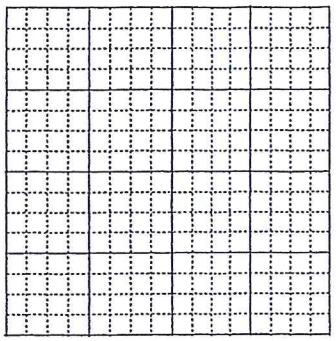
26) Graph the linear inequality: $y < -\frac{5}{4}x + 3$

27) Graph the function: $y = 3 \bullet 2^x$

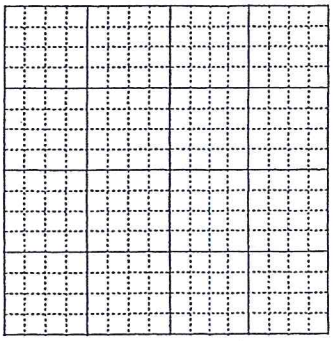
28) Write an exponential function that reperesents the situation: "College enrollment of 22,500 increases by 14% each year"

29) Write an exponential function that reperesents the situation: "Profits of $100,000 decreases by 2% each year"

30) Solve the equation: $3^{8x} = 3^{5x-6}$



26) _____



27) _____

28) _____

29) _____

30) _____