HOMEWORK!

I. Linear Equations

Slope-Intercept form of the Equation of a line

$$y = mx + b$$

1. Write the equation of a line with a slope of $\frac{3}{4}$ and passing through the point (8, 3).

2. Write the equation of a line parallel to the line $3x+4y=12$ and passing through the point (-12, 5).

3. Write the equation of a line that passes through the points (6, 7) and (-4, 2).

II. Functions

Use $f(x) = 3x + 5$ and $g(x) = x^2 - x - 12$

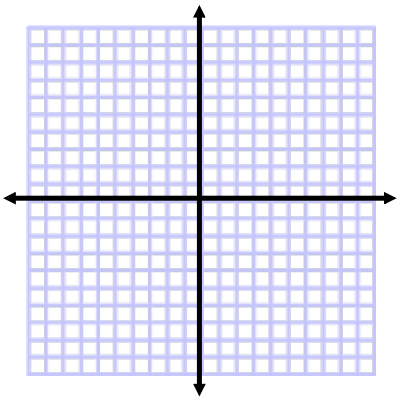
4. Find $f(x) + g(x)$
5. Find $f(x) \cdot g(x)$
6. Find $f(g(x))$
7. Find $g(f(x))$

III. Systems of Linear Equations

3 Methods of Solving

1. Graphing
2. Substitution
3. Linear Combinations

8. $x - 3y = -3$
   $2x + y = 8$



9. $-4x - 10y = 12$
   $x + 5y = 2$

10. $9x - 7y = 25$
    $-3x + 2y = -11$