Unit 2 HW 16

Name_____ Date_____ Period_____

Simplify
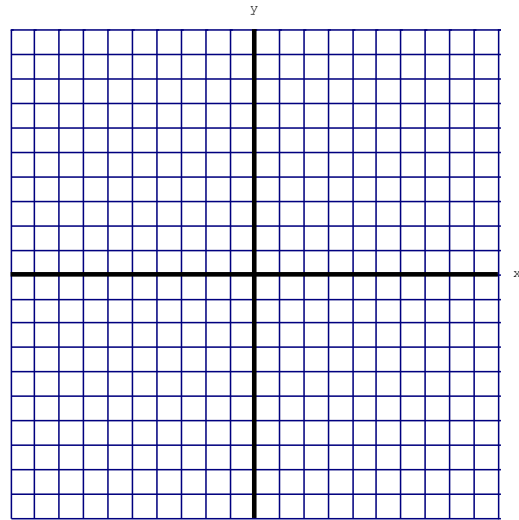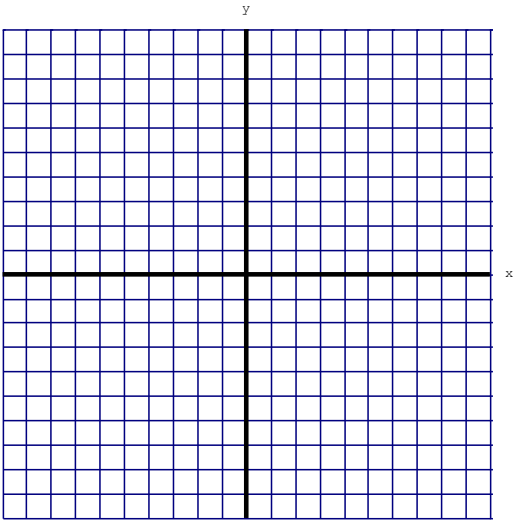   1. $3(-4)^2 + 40$
                                                      2. $-16(4)^2 + 30(4) + 36$

Graph each linear equation.
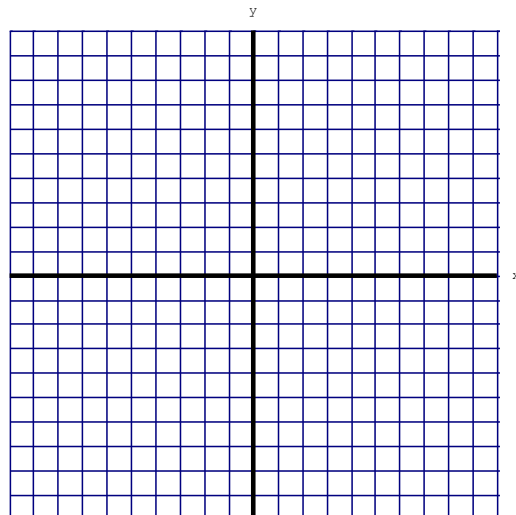   3. $y = -\frac{3}{4}x + 6$
                                                     4. $-4x + 6y = -12$

5. Solve the system of equations using any method.

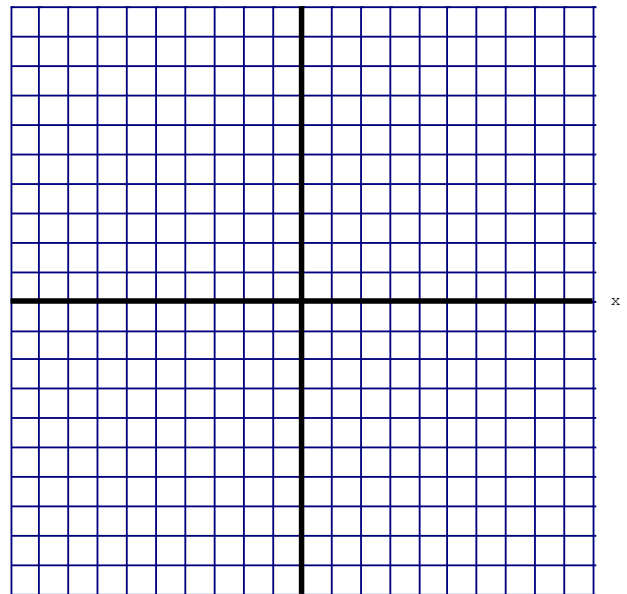$$\begin{cases} y = 6x + 9 \\ 5x - 3y = 12 \end{cases}$$

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6. Graph the system of inequalities.

$$\begin{cases} y < -3x + 8 \\ -2x + 6y \leq -12 \end{cases}$$

a. Is $(-5, 6)$ a solution to the system? Why or why not?

b. Is $(-3, -3)$ a solution to the system? Why or why not?

c. Is $(4, -4)$ a solution to the system? Why or why not

Simplify the expressions.

7. $(8x^3)(5x^4)$

8. $(3a^4b^2)^3$

9. $\dfrac{18c^6d^2}{6c^3d^8}$