

Unit 2 HW 16

Name Key No work

Date _____ Period _____

Simplify

1. $3(-4)^2 + 40$

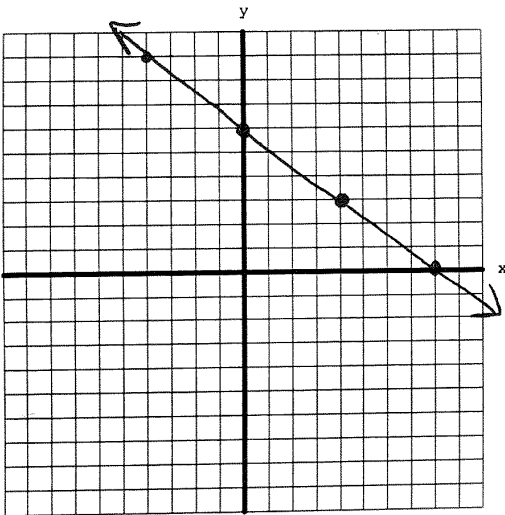
88

2. $-16(4)^2 + 30(4) + 36$

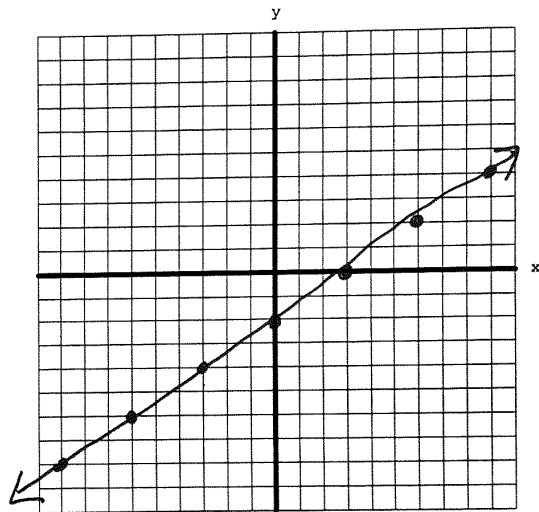
-100

Graph each linear equation.

3. $y = -\frac{3}{4}x + 6$



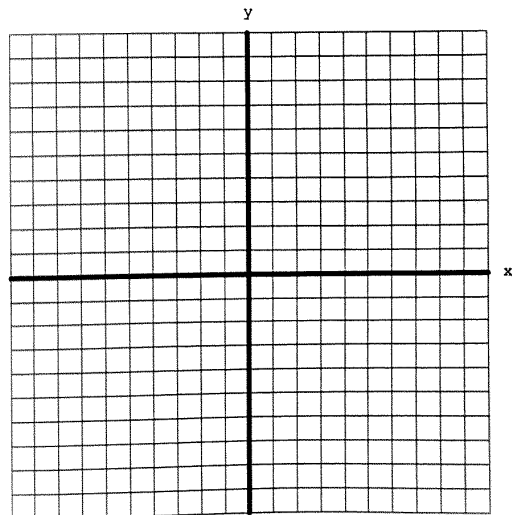
4. $-4x + 6y = -12$



5. Solve the system of equations using any method.

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

$(-3, -9)$



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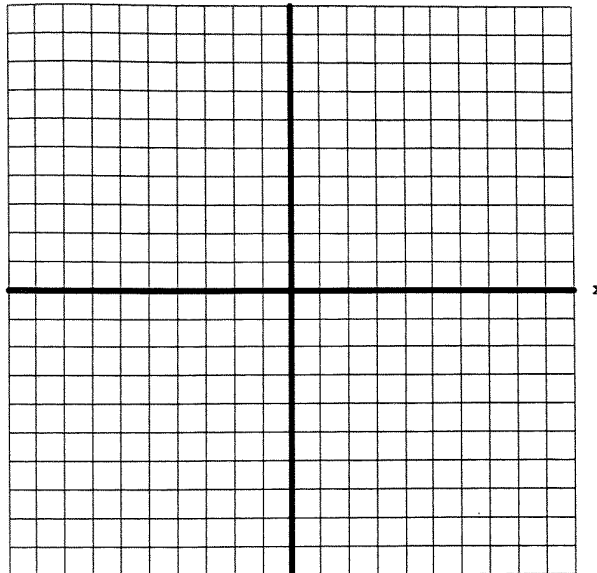
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6. Graph the system of inequalities.

$$\begin{cases} y < -3x + 8 \rightarrow \text{dashed line} \\ -2x + 6y \leq -12 \rightarrow \text{solid line} \end{cases}$$

Know how?
where to
shade



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

No

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

yes

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

No

Simplify the expressions.

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

$$40x^7$$

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

$$27a^{12}b^6$$

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

$$\frac{3c^2}{d^6}$$