

# Unit 2 HW 15

Name \_\_\_\_\_

Date \_\_\_\_\_

Period \_\_\_\_\_

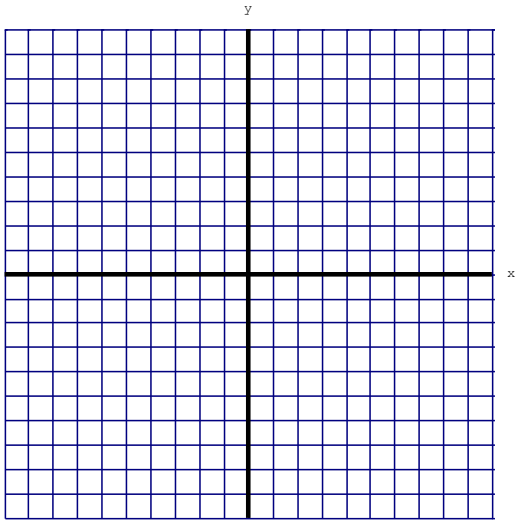
Simplify

1.  $2(7)^2 - 90$

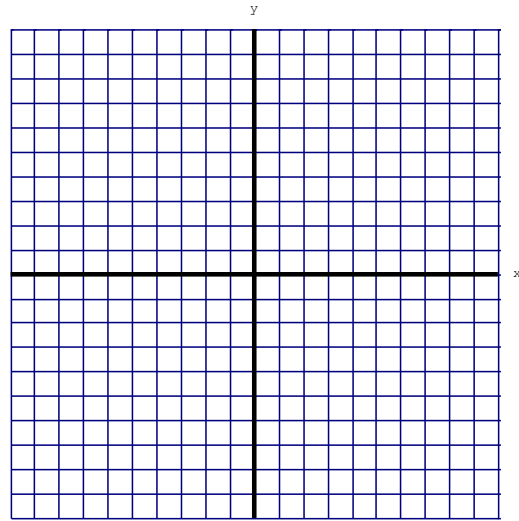
2.  $-8(-3)^2 - 15(-3) + 27$

Graph each linear equation.

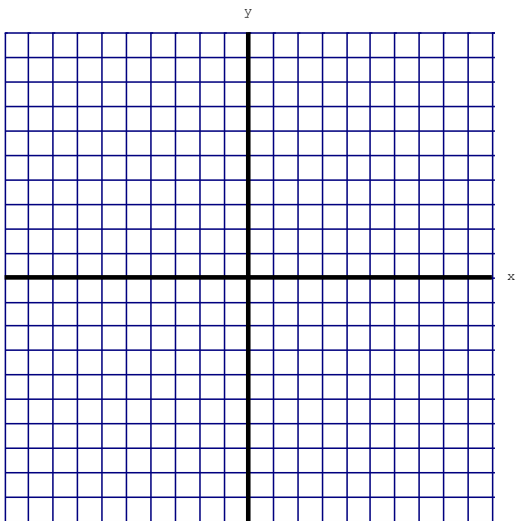
3.  $y = \frac{2}{3}x - 4$



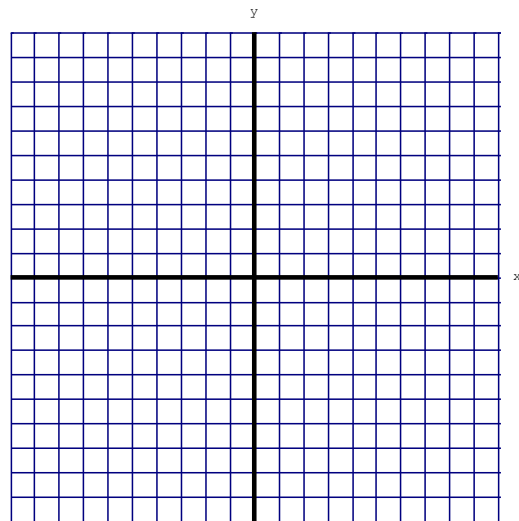
4.  $y = -3x + 7$



5.  $2x + 6y = -18$



6.  $-8x - 2y = 14$



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7. At PETCO, Mrs. Pischke spent \$84.50 on 3 bags of dog food and 4 dog toys. Mr. Belby spent \$99.25 on 4 bags of dog food and 3 dog toys. How much does each bag of dog food and each dog toy cost?

8. Solve the system of equations by elimination.

$$\begin{cases} y = 2x + 48 \\ -2x + 5y = 24 \end{cases}$$

9. Solve the system of equations by substitution.

$$\begin{cases} 13x + y = -29 \\ 4x - 3y = 44 \end{cases}$$