Unit 2 HW 17

Name	Date	Period
Simplify 1. $-6(5)^2 + 68$	2. 12(-	$(6)^2 + 25(-6) - 200$

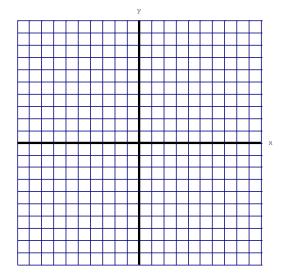
Solve the system of equations by graphing.

3.
$$\begin{cases} y = -\frac{2}{3}x - 5\\ 3x - 2y = -16 \end{cases}$$

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Solve the system of equations algebraically (check with graphing)

4.
$$\begin{cases} y = \frac{3}{2}x - 1\\ x + 2y = -18 \end{cases}$$



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Simplify the expressions. 5. $(8x^3)(5x^4)$	6. $(3a^4b^2)^3$	7. $\frac{18c^6d^2}{6c^3d^8}$

Solve using dimension analysis.

- 8. I'm trying to find the best garden hose for my house. I'd like it to have the best water pressure possible. Based on reviews, I should choose the Camco, Scott, or Water Right brand.
 - Camco says it can push out 2.7 pints of water per second.
 - Scott says it can push out 1174 gallons of water per hour.
 - Water Right it can push out 341 cups of water per min.

Which hose should I choose?

9. After 30 baseball games, A-Rod had 25 hits. After 100 games he had 80 hits. At this rate how many games would he have to play to reach 125 hits? (SHOW WORK)