

Unit 2 HW 10

Name _____

Date _____

Period _____

1. Simplify. $-9(7)^2 + 9(7) + 320$

2. Solve. $\frac{12}{x+8} = \frac{8}{3x-4}$

3. Write an equation of a line in slope intercept form.

a. $m = \frac{-3}{2}$ $(8, -12)$

b. $(10, -6)(-5, -15)$

4. There's a sale at the local candy shop. If you buy a Pez dispenser, you get a great discount on the Pez candy. Rick took advantage of the deal and bought 18 packs of candy with the dispenser for \$4.55. Shawn did the same, and bought 27 packs with the dispenser for \$5.90.
- How much was the Pez dispenser?
 - How much was each pack of candy?

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Write a system of equations to solve the problem.

5. The math club and the science club had fundraisers to buy supplies for a hospice. The math club spent \$135 buying six cases of juice and one case of bottled water. The science club spent \$110 buying four cases of juice and two cases of bottled water. What is the cost of each case of juice and water?

Solve the systems of equations using any method.

6. $x - 2y = 8$
 $5x + 3y = 1$

7. $6x + 2y = 14$
 $y = -3x + 7$

