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Pre- Algebra- Q4 Quiz # 1 Review

1. Which ordered pair satisfies the system of equations? 3x – y = 8

x + y = 2

a. (3,-1) b. (2.5, 0.5) c. (2.5, -0.5) d. (5, -3)

1. Solve for b: a + 3b = 15

 a + b = 5

a. 1 b. 5 c. 7 d. 4

1. How many solutions does each of these systems have? {zero, one or infinite}

y = 3x + 7 y = 2(x + 8) y = 0.5x + 2

y = 2x + 3 y = 2x + 16 y = $\frac{1}{2}$x - 9

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1. What do parallel lines have in common?

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Write the equation of a line that is parallel to y = 4x – 8

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5. Solve and check algebraically: y = 2x

 3x + 2y = 21

6. Solve and check algebraically: 4x + 3y = 27

 y = 2x – 1

7. Solve and check algebraically: 2x – 9y = 17

 5x + 9y = 11

8. Solve and check algebraically: 4x – 3y = 1

 2x + y = 3

9. Solve graphically: 10. Solve graphically:

 y = - $\frac{1}{2}$x + 6 2x + y = 8

y = 2x + 1 y – x = 2



11. Write and solve a system of equations:

 You buy 8 hostas and 15 geraniums for $193. Your friend buys 3 hostas and 12 geraniums for $117. Find the cost of each hosta and each geranium.

Let statements: Equations:

cost of one hosta \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cost of one geranium \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. Sandra and her friends visit the concession stand at a baseball game. The stand charges $2 for a hot dog and $1 for a drink. They spend a total of $11 on 8 items. Write and solve a system of equations to determine how many hot dogs and how many drinks were bought?

Let statements: Equations:

# of hot dogs \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ # of drinks \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_