

Aim: Identify properties when solving equations with variables on both sides

Do Now:

Directions: Solve the following equations and state every property that you use.If $0.02x + 0.7 = 0.8$, then what is a solution for x ?

1. What is the solution for x in the equation $2(x - 3) = 1.2 - x$?

2. What is the solution of x in the equation $5(3x - 2) = 15x - 10$?

3. What is the solution to the following equation? $2(x - 3) = 2x + 5$

4. Solve the equation for d: $0.2(d - 6) = 0.3d + 5 - 3 + 0.1d$

5. Describe the property used to convert the equation from one line to the next:

$$x(1 - x) + 2x - 4 = 8x - 24 - x^2$$

$$x - x^2 + 2x - 4 = 8x - 24 - x^2$$

$$x + 2x - 4 = 8x - 24$$

$$3x - 4 = 8x - 24$$

$$3x + 20 = 8x$$

$$20 = 5x$$

$$x = 4$$

Name: _____

Exit Card:

Directions: Solve the following equations and state every property that you use.

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How many solutions are there?

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