Algebra Review #13 SHOW HOW YOU SOLVED EACH PROBLEM

1. What is the property that justifies the step between Step 4 and Step 5?

Step 1:
$$8 + 2x = 14$$

Step 2:
$$8 + (-8) + 2x = 14 + (-8)$$

Step 3:
$$0 + 2x = 14 + (-8)$$

Step 4:
$$0 + 2x = 6$$

Step 5:
$$2x = 6$$

Step 6:
$$\frac{2x}{2} = \frac{6}{2}$$

Step 7:
$$1x = \frac{6}{2}$$

Step 8:
$$1x = 3$$

Step 9:
$$x = 3$$

2. Simplify using the distributive property:

- /	
$6\left(x-\frac{1}{2}\right)$	$\frac{1}{3}(3x-9)$

3. Solve for a.

$$2b - a = 5$$

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4. Which property of equality is illustrated by the following statement?

If
$$a = b$$
, then $b = a$.

5. Choose the examples of an equation with no solution.

$$3x + 10 = 3x + 15$$

$$4x - 2 = 4x - 4 + 2$$

$$8x = 4(2x + 1)$$

$$x + 3 = x + 6$$

$$8x + 5 = 6x + 1$$

6. Which property justifies this step?

$$3x - (x - 5) = 9$$

Step 1:
$$3x - x + 5 = 9$$

7. What is the value of the following:

$$7\sqrt{20} - 3\sqrt{45}$$

9. Solve for variable x:

$$8 = 5y(x - z)$$

8. Simplify the radical.

$$\sqrt{15} \cdot \sqrt{36}$$

10. Solve for variable w:

$$A = \frac{1}{4}lw$$