## **Solve Equation Worksheets**

1.	Solve the equa	ation for $x$ .	For each step.	describe the o	peration used to	convert the equation.
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$$7x - [4x - 3(x - 1)] = x + 12$$

2. Solve the equation for x. For each step, describe the operation used to convert the equation.

$$2[2(3-5x)+4] = 5[2(3-3x)+2]$$

## **Solve Equation Worksheets**

1. Solve the equation for x. For each step, describe the operation used to convert the equation.

$$7x - [4x - 3(x - 1)] = x + 12$$

$$7x - (4x - 3x + 3) = x + 12$$

$$7x - (x + 3) = x + 12$$

$$7x - x - 3 = x + 12$$

$$6x - 3 = x + 12$$

$$5x - 3 = 12$$

$$5x = 15$$

$$x = 3$$

Collected like terms
Distributive property
Collected like terms
Collected like terms
Subtracted x from both sides
Added 3 to both sides
Divided both sides by 5

2. Solve the equation for x. For each step, describe the operation used to convert the equation.

$$2[2(3-5x)+4] = 5[2(3-3x)+2]$$

$$2(6-10x+4) = 5(6-6x+2)$$

$$2(10-10x) = 5(8-6x)$$

$$20-20x = 40-30x$$

$$20+10x = 40$$

$$10x = 20$$

$$x = 2$$

Distributive property

Commutative property/collected like terms

Distributive property

Added 30x to both sides

Subtracted 20 from both sides

Divided both sides by 10