

**Week 3****Add, Subtract & Multiply Polynomials**

Simplify the expression.

$$6x(2x+3)$$

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My solution is....**Solving Linear Equations**

Solve each equation for the given variable.

$$p - 1 = 5p + 3p - 8$$

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My solution is....**Solving Systems of Equations**

Solve each system by elimination.

$$x - y = 11$$

$$2x + y = 19$$

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My solution is....**Solving Linear Inequalities**

Solve each inequality and graph its solution on a number line.

$$5y + 4y \leq 18$$

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My solution is....

**Function Notation**

Use the function  $f(x) = -2x + 7$  to evaluate each of the following:

$f(b + c)$

$f(8)$

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My solution is....

**Recursive & Explicit Formulas**

Find the first five terms of the sequence.

$f(n) = 3^n$

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My solution is....

**Exponential Growth & Decay**

The prize for a radio station contest begins with a \$100 gift card. Once a day, a name is announced. The person has 15 minutes to call or the prize increases by 2.5% for the next day.

Write an equation to represent the amount of the gift card in dollars after  $t$  days with no winners.

How much will the gift card be worth if no one wins after 10 days?

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My solution is....

