

Week 4**Add, Subtract & Multiply Polynomials**

Simplify the expression.

$$(4y + 1)(2y + 6)$$

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

Solve each equation for the given variable.

$$-4(-6x - 3) = 12$$

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

Solve each system by substitution.

$$2x - 3y = -1$$

$$y = x - 1$$

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

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

$$6n + 2 + 6n < 14$$

My solution is....

Function Notation

Use the function $f(x) = 8x - 25$ to evaluate each of the following:

$f(2)$

$f(a + 3)$

My solution is....

Recursive & Explicit Formulas

Write the explicit formula for the sequence

19, 12, 5, -2, -9, ...

My solution is....

Exponential Growth & Decay

During normal breathing, about 12% of the air in the lungs is replaced after one breath. Write an exponential decay model for the amount of the original air left in the lungs if the initial amount of air in the lungs is 500mL.

How much of the original air is present after 24 breaths?

My solution is....

