

Week 1**Add, Subtract & Multiply Polynomials**

Simplify the expression.

$$(5p^2 - 3) + (2p^3 - 3p^2)$$

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

Solve each equation for the given variable.

$$-4x - 6x = 20$$

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

Solve each system by elimination.

$$-4x - 2y = -12$$

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

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

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

$$-5n + 2n > 3$$

My solution is....

Function Notation

Use the function $f(x) = 8x + 15$ to evaluate each of the following:

$f(-5)$

$f(13)$

My solution is....

Recursive & Explicit Formulas

Find the first five terms of the sequence.

$a_{n+1} = a_n + 7$ where $a_1 = 4$

My solution is....

Exponential Growth & Decay

Since 1995, the daily cost of patient care in community hospitals in the United States has increased about 4% per year. In 1995, such hospital costs were an average of \$968 per day. What is the estimated cost per day in 2020.

My solution is....

