1.2

Date:

Objective:

Vocabulary:

Term:

Like Terms:

Standard Form:

Variable:

Coefficient:

Polynomial:

Degree of a polynomial:

Steps for adding/subtracting polynomials:

1.

2.

Examples: Simplify each expression by adding or subtracting. Leave answers in standard form. Show work!!

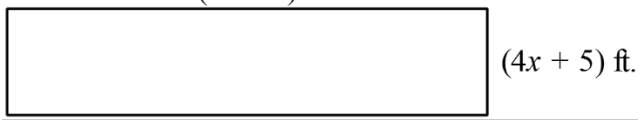
a) $\left(5n^2-2\right)+\left(7-3n^2\right)$

b) $\left(2w^2+3w\right)-\left(4w^2+w\right)$

c) $\left(4y^2+12y-7\right)-\left(20y+5y^2-8\right)$

d) $\left(-2k+5\right)+\left(k^2-3k\right)-\left(-4k^2+8\right)$

Example: Find the perimeter in terms of x.



Steps for Multiplying Polynomials:

1.

** Be sure to _____ the exponents!

2.

3.

Examples: Simplify each expression by multiplying. Show work!

e) $-xy\left(7x^2y+3xy-11\right)$

f) $(m+3)(m-8)$

g) $(2x-3)^2$

h) $(2x-3)\left(5x^2-6x+7\right)$

i) $(2x-3)\left(5x^2-6x+7\right)$

j) $(n+3)(n-3)$

Example: Find the area of the rectangle in terms of x. Write answer in standard form.