

My name is: Key

9/29/15

Quiz #1

1) What was the "aim" on September 25, 2015?

How can we apply our skills of multiplying polynomials to solve problems?

-----PUT AWAY YOUR NOTEBOOK NOW-----

SHOW ALL WORK (BOX IN FINAL ANSWERS)

2) Classify the following:

a. $x^2 + 4x - 1$

Quadratic trinomial

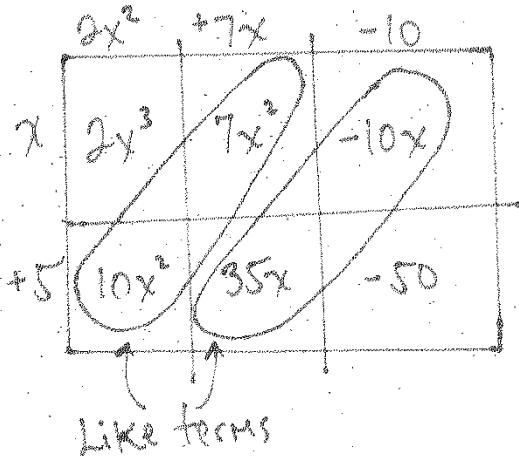
Largest exponent is 2 → 3 terms

b. $5x^4 + 3x^3$

4th degree binomial

Largest exponent is 4 → 2 terms

4) Express the product of $2x^2 + 7x - 10$ and $x + 5$ in standard form.



$2x^3 + 17x^2 + 25x - 50$

3) Simplify each:

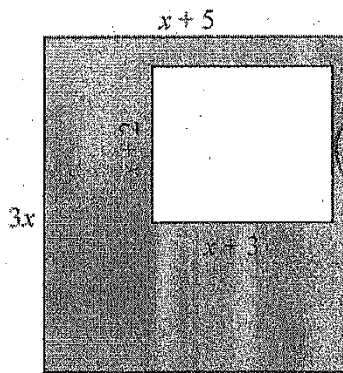
a. $(8x^2 - x + 4) + (x - 5) \rightarrow 8x^2(-x+x) + (4-5)$
 $8x^2 - 1$

Like terms:

b. When $(3x^2 - 8x)$ is subtracted from $(2x^2 + 3x)$ the difference is

change order
 $(2x^2 + 3x) - (3x^2 - 8x)$
 $2x^2 + 3x - 3x^2 + 8x = -x^2 + 11x$

5) Determine the area of the shaded region. Express your answer in simplest form.



Area Big
- Area Small

Area Shaded

$3x(x+5) - (x+2)(x+3)$

$(3x^2 + 15x) - (x^2 + 5x + 6)$

$3x^2 + 15x - x^2 - 5x - 6$

$2x^2 + 10x - 6$