MATH 9	Quiz 5.1 V1	Mr. Singh

Polynomials

Name: _____

1. Determine the **degree** and **type** (*Monomial, Binomial, Trinomial, or Polynomial*)

Expression	Degree	Type
$3x^4$		
$-2p^2+3p^3-p$		
$2x^3+x^2$		
$4a-2a^4+a^7+1$		

2. Find all <u>pairs</u> of ***like terms*** in the following list: $2x^3$, $3x^2$, $-5x$, $3a^2$, $-x^2$, $\frac{1}{2}x^3$, $2x$, $-a^2$

3. Find the sum, <u>algebraically</u>: $\left(-2x^2+3x-1\right)+\left(3x^2-4x+3\right)=$

4. Subtract, <u>algebraically</u>: $\left(-2x^2+3x-1\right)-\left(3x^2-4x+3\right)=$

5. Simplify the following subtraction using an *Algebra Tiles* Model only: $\left(2x-3\right)-\left(-x+1\right)$

6. Multiply, <u>algebraically</u>:

a. $(-2x)(-4x^2)$

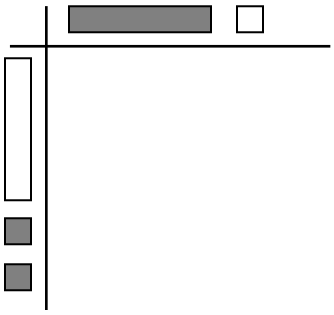
b. $(-2a)(3a^2-2)$

7. Illustrate the following products using an *Algebra Tiles* Model:

a. $(-2x)(-4x)$

b. $(-2a)(3a-2)$

8. Complete the following *Algebra Tiles* Model of a product and write the product in algebraic form by filling in the brackets:



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