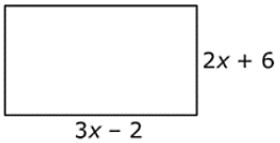
Algebra 1

Name:_____

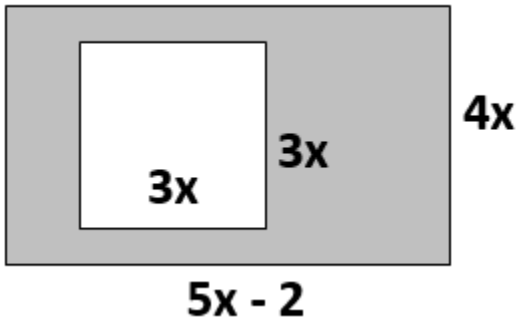
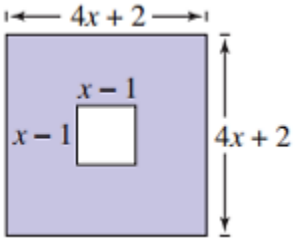
Date:_____ Block:_____

7.1 Operations with Polynomials Review

What you need to know & be able to do	Things to remember	Examples	
1. Classify polynomials	**Degree:** x^3: cubic x^2: quadratic x: linear #: constant **Number of Terms:** 1: Monomial 2: Binomial 3: Trinomial 4+: Polynomial Make sure your expressions are simplified first!	1. $5x - 7$	2. -18
		3. $-2x^2 + 8 + 3x^2$	4. $4x^2 + 3x - 10 + 2(x - 4)$
2. Add and Subtract Polynomials	-Line up like terms -If subtracting, change subtraction sign to addition and change the signs of every term in the 2nd polynomial	5. $(4x + 3x^2 - 7) + (-6x^2 + 4)$	6. $(4x^2 - 3x - 2) - (9x^2 + 3x - 7)$
3. Multiply polynomials	-Distributive Method or Area Method - $x \cdot x = x^2$	7. $5x(3x + 7)$	8. $(x - 9)(x + 6)$
		9. $(x + 4)^2$	10. $(6x + 3)(4x - 8)$
4.Area & Perimeter	Perimeter: Add up all outside sides Area: Rectangle: A = l x w Triangle: A = ½bh	11. Find the area & perimeter of the following:  	12. The area of a rectangle is $x^2 + 7x + 6$. What is the **perimeter** of this rectangle?

A. The measure of the perimeter of a triangle is 37x + 42. It is known that two of the sides of the triangle have measures of 14x + 16 and 10x + 20. Find the length of the third side (Day 2 HW):

B. Find the area of the shaded region (Day 3 HW):



C. Find the area of the shaded region (Day 3 HW):