Algebra 1 Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block:\_\_\_\_\_\_\_\_

**7.1 Operations with Polynomials Review**

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| **What you need to know & be able to do** | **Things to remember** | **Examples** |
| 1. Classify polynomials | **Degree:**x3: cubicx2: quadraticx: linear#: constant**Number of Terms:** 1: Monomial2: Binomial3: Trinomial4+: PolynomialMake sure your expressions are simplified first! | 1. 5x – 7 | 2. -18 |
| 3.  | 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.  | 6.  |
| 3. Multiply polynomials | -Distributive Method or Area Method- x∙x = x2 | 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 sidesArea:Rectangle: A = l x wTriangle: A = ½bh  | 11. Find the area & perimeter of the following:  | 12. The area of a rectangle is x2+ 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):

