**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**AU7: HW# 1 – Adding & Subtracting Polynomials Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Simplify:**

**1.**  **2.** 

**3.** **** **4.** 

**5.**  **6.** 

***APPLICATIONS***

**7.** The length of a rectangle is and the width is . Write an expression for the perimeter of the rectangle.

**8.** The perimeter of a triangle is represented by the polynomial . Two of the sides of the triangle are represented by the expressions  and . Find an expression for the third side of the triangle.

**9.** Subtract  from .