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

**AU7: HW# 2 – Multiplying and Factoring Polynomials Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Use the distributive property to write an equivalent expression:**

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

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

**Write an equivalent expression by factoring the G.C.F.:**

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

**7.**  **8.** 

**9.**  **10.** 

**11.** The length of a rectangle is represented by 3*x*, the width is represented by , what is the area of the rectangle? What is the perimeter?

**12.** The length of a rectangle is sixteen more than four times the width. What is the area of the rectangle written as a polynomial? What are the dimensions of a different rectangle with an equivalent area?

**Spiral:**

**13.** Solve for *x* in the following equation. Show your work.

