**AP Calculus Summer Assignment #1**

**Simplfy.**

1. x - 4 2. x3 – 8

 x2 – 3x – 4 x – 2

3. 5 – x 4. x2 – 4x – 32

 x2 – 25 x2 – 16

**List the trigonometric Identities.**

5. Pythagorean = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 cos 2x = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 sin 2x = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_