**AP Calculus Summer Assignment # 3**

**I. Follow the directions for each problem.**

1. Evaluate $\frac{f\left(x+h\right)-f(x)}{h}$ and simplify if f(x) = x2 – 2x.
2. Expand $(x+y)^{3}$.
3. Simplify: $x^{\frac{3}{2}}$(x + $x^{\frac{5}{2}}$ - x2)

**II. Solve for z.**

4. 4x + 10yz = 0 5. y2 + 3yz – 8z – 4x = 0