MATH 140 WORKSHEET ZERO NAME:_____

Find each of the following:

1. Consider the function $f(k) = 2k + 3$ where $f : \mathbb{N} \to \mathbb{R}$ find the first 6 terms of f.

2. Consider the formula $\mu = \dfrac{\sum_{k=1}^{n} f(k)}{n}$. Let n = 5 and $f(k) = 2k + 3$. Find μ

3. Consider the formula $p = \prod_{k=1}^{n} f(k)$. Let n = 3 and $f(k) = 2k + 3$. Find p

4. Consider the formula $g = \sqrt[n]{\prod_{k=1}^{n} f(k)}$. Let n = 3 and $f(k) = 2k + 3$. Find g.

5. Consider the formula $s^2 = \dfrac{\sum_{k=1}^{n} (f(k) - \mu)^2}{n-1}$. Let n = 5 and $f(k) = 2k + 3$. Find s^2