**Calculus 12**

**Local Linear Approximation**

**Use local linear approximation to estimate the values of the following:**

1. 2)

3) 4)

5) 6)

**Use local linear approximation to estimate the values of the following:**

 7) 8)

9) Given the equation , use local linear approximation to estimate

**Answers:**

**(1) 4.01 (2) 1.95 (3) (4) (5) 16.64**

**(6) 1.002 (7) 2.1 (8) (9)**