

AP Calculus AB

Unit 6 – Differential Equations

In Class Review – KEY

1. a) Decreasing

b) -5.8

c) Over-estimate

2. a) Increasing

b) $y_T = x + 2$, $y(-0.9) \doteq 1.1$

c) Under-estimate

3. $y(x) = \frac{1 + 2e^{-3x^2}}{3}$

4. b) $y_T = -2(x-1) + 3$

5. Graph 1: G, 7

Graph 2: B, 3

Graph 3: C, 1

Graph 4: E, 5