

AP Calculus AB
Breakdown for Fall Semester Exam

Name Garden Muzzillo

Multiple choice (18 questions)

- 1) Tangent line (trig)
- 2) Derivative
- 3) Related Rate
- 4) Limit
- 5) Find the value of k to make the function continuous
- 6) Derivative
- 7) Write the equation of the tangent line
- 8) Find the derivative
- 9) Indefinite integral u sub
- 10) Linear approximation
- 11) Find when the function is concave up/down
- 12) Related Rate
- 13) Implicit Differentiation
- 14) Limit
- 15) Find the derivative at a point. Implicit.
- 16) Particle Movement
- 17) Find the derivative at a point. Implicit.
- 18) Derivative

Ch 1 100
Motion 20
Ch 2 100
Ch 3 (42) 40
Ch 3-7 100
Ch 4 (1-3) 100
10y

Free Response (3 questions)

- 1) Table Problem - average rate of change, Riemann Sum, compare values
- 2) Interpret Graph, Riemann Sum, 2FTOC
- 3) Particle Movement, differential equation.

Know the derivative of the arcsec, arcsin, ln(x), e^x

$$\arccos(x) = \frac{v'}{|v|\sqrt{1-v^2}}$$

$$\arcsin(x) = \frac{v'}{\sqrt{1-v^2}}$$

$$\ln(f(x)) = \frac{v'}{v}$$

$$e^x = e^x$$