 Course: AP Calculus AB	Quiz: 23	Instructor: D. Shubleka	

______ No Calculators. Present neatly. Score_____.

Name_ 1.

Suppose that we have two resistors connected in parallel with resistances R_1 and R_2 measured in ohms (Ω). The total resistance, R, is then given by, $\frac{1}{R} = \frac{1}{R_1} + \frac{1}{R_2}$

Suppose that R_1 is increasing at a rate of 0.4Ω /min and R_2 is decreasing at a rate of 0.7Ω /min. At what rate is R changing when $R_1 = 80 \Omega$ and $R_2 = 105 \Omega$? Your Work: