

QUIZ 5

Name _____

1. Find $\lim_{t \rightarrow 0} \left\langle \frac{\sin(t)}{t}, \cos(t), \frac{t+1}{t-1} \right\rangle$ if it exists.

2. Suppose $\vec{r}(t) = \langle e^{t^2}, t^2, \sec(2t) \rangle$. Find $\vec{r}'(t)$.

3. Evaluate $\int_0^1 \langle t^2 - 1, 3t \rangle dt$