

Quiz #3

SHOW YOUR WORK

1. (5 points) Clovis is standing on the roof of Lander Hall and throws a tomato straight down to the ground. The height of the tomato above the ground in feet is given as a function of time by $h(t) = -16t^2 - 6t + 100$, where t is in seconds. Let h be a number greater than 1. What is the average speed of the tomato between $t = 1$ and $t = h$? Simplify your answer as much as possible.

2. (5 points) Evaluate $\lim_{x \rightarrow 5} \frac{2x^2 - 9x - 5}{x^2 - 5x}$ if it exists.

Quiz #3

SHOW YOUR WORK

1. (5 points) Clovis is standing on the roof of Terry Hall and throws a tomato straight down to the ground. The height of the tomato above the ground in feet is given as a function of time by $h(t) = -16t^2 - 8t + 200$, where t is in seconds. Let h be a number greater than 1. What is the average speed of the tomato between $t = 1$ and $t = h$? Simplify your answer as much as possible.

2. (5 points) Evaluate $\lim_{x \rightarrow 4} \frac{2x^2 - 5x - 12}{x^2 - 4x}$ if it exists.