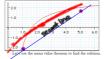


You are driving in a cast traveling at 50 mph and you pass a police cast. Four minutes later, you pass a second p cat and you are traveling at 50 mph. The distance between the two police cast is five miles. The second police nails you for speeding. How can be prove that you were speeding?

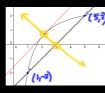


Example 3) Given  $f(x) = 3 - \frac{5}{2}$ . Find the value of c in the interval (1, 5) that satisfies the mean value the



To the left, is the graph of the function.

Visually, what is the mean value theores trying to find? Draw it in.



m= 2-2 5-1

y-2= x-5 y= x-3 X-int: (3

$$m_{\perp} = -1$$

Where does y=-x+3 intersection

how can we check this? We need to f

egn of tangent line @ X= 15.

Will this work all of the time?

MVT:

slope of second line -1