

Mathematics 122 Quiz #12

Name: _____

Let $f(t)$ be the function

$$f(t) = 2^t + 3^t.$$

1. What is $f(3.1)$?

$$f(3.1) = \underline{\hspace{2cm}}$$

2. Use your calculator to compute the derivative $f'(3.1)$ accurate to two decimal places.

HINT: As we saw in class Wednesday it is important not to use too large a window. So first zoom in on the graph near $t = 3.1$. Note in problem 1 you have computed $f(3.1)$ which is what you need to be able to figure out good choices of Ymin and Ymax.

$$f'(3.1) \approx \underline{\hspace{2cm}}$$