

Present neatly. Justify for full credit. No Calculators.

Name _____ Score _____ ~8 minutes / A

1.

Find an equation of the tangent line to the graph of the given function as the specified point.

$$y = \frac{2x + 1}{x + 2}, \quad (1, 1) \quad (8 \text{ points})$$

2. The limit below describes the slope a function at a given point. Identify the function and the point.

$$\lim_{h \rightarrow 0} \frac{(1 + h)^{10} - 1}{h} \quad (2 \text{ points})$$

Present neatly. Justify for full credit. No Calculators.

Name _____ Score _____ ~8 minutes / F

1.

Find an equation of the tangent line to the graph of the given function as the specified point.

$$f(x) = \frac{1}{\sqrt{x}} \quad \left(4, \frac{1}{2}\right) \quad (8 \text{ points})$$

2. The limit below describes the slope a function at a given point. Identify the function and the point.

$$\lim_{x \rightarrow \pi/4} \frac{\tan x - 1}{x - \pi/4} \quad (2 \text{ points})$$