Worksheet #6 - Average Rate of Change

January 28, 2005

Please print your name(s) at the top of the page. Please answer in complete sentence.

$$f(x) = 8x^2 + 10 \qquad\qquad g(x) = 10 \cdot 2^x$$

- Determine the average rate of change of $f(x)$ between the values of $x = 0$ and $x = 2$.

- Determine the average rate of change of $g(x)$ between the values of $x = 0$ and $x = 2$.

- Determine the exponential function that goes through the points $(0, 10)$ and $(2, 90)$.