

In class exercises for finding the derivative (instantaneous rate of change) of each function listed for each of the values of  $x$  specified.

$$f(x) = 3x - 2 \quad ; \quad \text{evaluate at } f'(x) \text{ at } x = \{-2, -1, 0, 2, 5\}$$

$$g(x) = 2x^2 - 3x + 1 \quad ; \quad \text{evaluate } g'(x) \text{ at } x = \{-3, -1, 0, 2, 3, 4\}$$

$$h(x) = \frac{1}{x} \quad ; \quad \text{evaluate } h'(x) \text{ at } x = \{-2, -1, .5, 3, 10\}$$

$$k(x) = \sqrt{x} \quad ; \quad \text{evaluate } k'(x) \text{ at } x = \{.5, 1, 2, 3, 4, 9\}$$