

2.3 problem made up by me:

$$101. \lim_{x \rightarrow 0} \frac{\frac{4}{x-5} + \frac{4}{5}}{x}$$

3.1 problems made up by me:

Instructions for all problems: find the slope of the tangent line to the given function at the given value of x by using limits and some version of the slope formula:

$$101. f(x) = 2x^2 \quad x = -1$$

$$102. f(x) = x^3 \quad x = 2$$

$$103. f(x) = \frac{1}{x} \quad x = -3$$

$$104. f(x) = \frac{3}{x} \quad x = 5$$