

AP Calc review AB 8/23

BW! Using the function from yesterday ($f(x) = x^3 + x^2 - 6x$), write the equation of the secant line between $(1, -4)$ and $(2, 0)$. Then graph both on the same axes. Next write the equation of the secant line between $(4, -4)$ and $(1.5, f(1.5))$. Graph.

$(1, -4)$ $(2, 0)$

$$m = \frac{4}{1}$$

$$y = 4x - 8$$

$$y - 0 = 4(x - 2)$$

$$(1.5, f(1.5)) + (-1, -4)$$

$$m = \frac{f(1.5) + 4}{0.5}$$

$$y + 4 = \frac{f(1.5) + 4}{0.5} (x - 1)$$

$$(1.25, f(1.25)) \text{ and } (1, -4)$$

$$m = \frac{f(1.25) + 4}{0.25}$$

$$y + 4 = \frac{f(1.25) + 4}{0.25} (x - 1)$$