

$$100 (1.08)^t$$

b) avg MOC $[0, 0.5)$

$$f(0) = 100$$

$$f(0.5) = 103.92$$

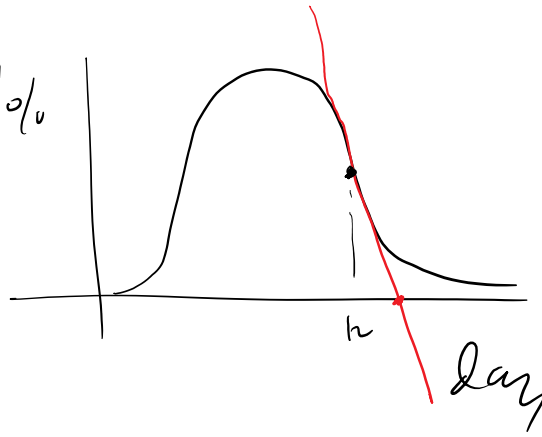
$$f(1) = 108$$

$[0, 1)$

$$\frac{f(0.5) - f(0)}{0.5 - 0}$$

$$\frac{3.92}{0.5} = 7.84 \text{ \$/yr}$$

(24) %



$$\text{slope} \approx \frac{9 - 19}{12 - 0}$$

$$\frac{-10}{12} \approx \frac{-5\%}{6 \text{ day}}$$

$$P(x) = 4x^2 - 3 \quad x = 2$$

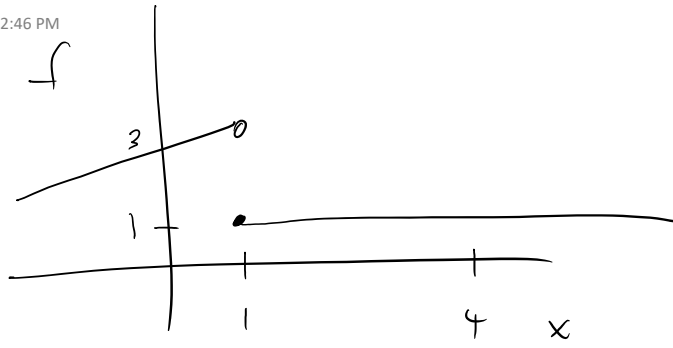
$$P(2) = 13$$

$$P(2.01) = 13.1604$$

$$\frac{\Delta P}{\Delta x} = \frac{0.1604}{0.01}$$

$$= 16.04$$

$$\lim_{x \rightarrow 4} x^2 = 16$$



$$\lim_{x \rightarrow 1^-} f(x) = 3$$

$$\lim_{x \rightarrow 1^+} f(x) = 1$$

$$\lim_{x \rightarrow 1} f(x)$$

DNE