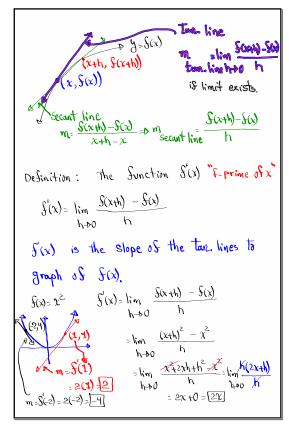
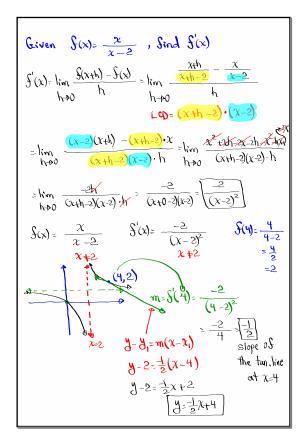


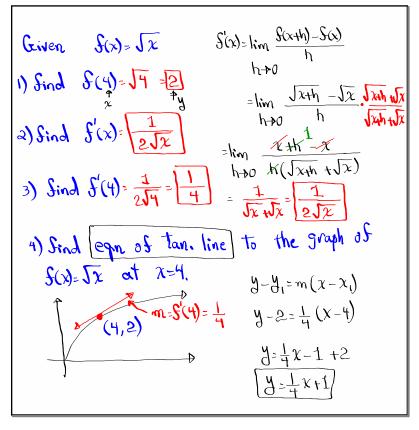
Feb 19-8:47 AM



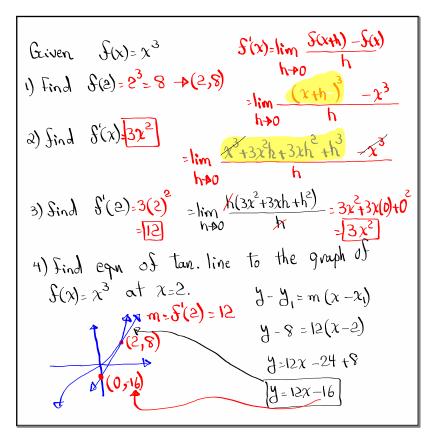
Mar 4-8:47 AM



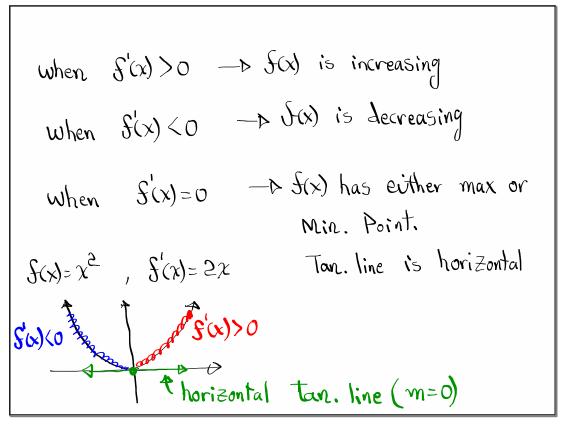
Mar 4-8:58 AM



Mar 4-9:11 AM



Mar 4-9:24 AM



Class QZ 8

Given
$$S(x) = \chi^2 - 2\chi$$

I) find $S'(x)$ using the desirition of $S'(x)$.

$$S(x) = \lim_{h \to 0} \frac{S(x+h) - J(x)}{h} = \lim_{h \to 0} \frac{(x+h)^2 - 2(x+h) - (x^2 - 2x)}{h}$$

$$= \lim_{h \to 0} \frac{x^2 + 2xh + h^2 - 2x - 2h - x^2 + 2t}{h} = \lim_{h \to 0} \frac{h(2x + h - 2)}{h} = \frac{2x - 2}{2x}$$
2) Sind x -Value where $S'(x) = 0$.
$$= 2x - 2 = 0$$

$$= 2x = 2$$

Mar 4-9:40 AM