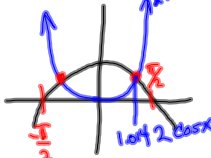


(16) $2 \cos x = x^4$ \$4.8



$2 \cos x - x^4 = f(x)$
 $-2 \sin x - 4x^3 = f'(x)$
 Find the root(s)

Print your sheets.

(5) $x^3 + 2x - 4 = 0$
 $f'(x) = 3x^2 + 2$

$x_k = \frac{f(x_k)}{f'(x_k)}$

Mar 25-12:17 PM

Tan line to $f(x)$ @ $x = x_1$:

$y = f'(x_1)(x - x_1) + f(x_1)$

$(x_1, f(x_1))$ $\frac{1}{f'(x_1)}$
 (x_1, y_1) m

$y = m(x - x_1) + y_1$

SET $= 0 \Rightarrow f'(x_1)x - f'(x_1)x_1 + f(x_1) = 0$

$x_2 = x_1 - \frac{f(x_1)}{f'(x_1)}$

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