

A6, Precalc2H, 4-20-09

A1

Compute:

$$\lim_{\Delta x \rightarrow 0^+} \frac{f(x + \Delta x) - f(x)}{\Delta x} \text{ when ...}$$

a. $f(x) = x^3$.

b. $f(x) = 2x^2 - x$

c. $f(x) = x^3 - 2x^2$