

Quiz #6

Name: Key

You must show your work to get full credit.

1. Use your calculator to compute the following:

(a) $f'(3.2)$ where $f(x) = 2x^3 - 2x$. $f'(3.2) = \underline{59.440}$

$nDeriv(2x^3 - 2x, x, 3.2)$

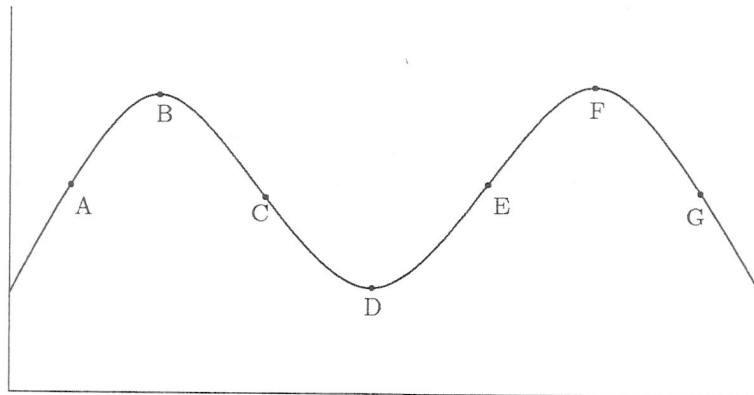
(b) $g'(-1.2)$ where $g(t) = t2^t$. $g'(-1.2) = \underline{-0.07322}$

$nDeriv(x2^x, x, -1.2)$

(c) $h'(4.7)$ where $h(s) = \frac{s^3 + 2s}{1 - 3s}$. $h'(4.7) = \underline{-3.232}$

$nDeriv((x^3 + 2x)/(1 - 3x), x, 4.7)$

2. The following is the graph of a function $y = f(x)$.



(a) At which of the labeled points is $f'(x)$ positive? A, E

(b) At which of the labeled points is $f'(x)$ negative? C, G

(c) At which of the labeled points is $f'(x)$ zero? B, D, F