

Let $f(x) = 20 + 8x - x^3$.

SCORE: _____ / 4 PTS

[a] f has one zero. Find the zero to 2 decimal places.

3.67

[b] f has one local minimum. Find the x - coordinate of the local minimum to 2 decimal places.

-1.63

[c] Find the interval over which f is increasing. Write your final answer in interval notation to 2 decimal places.

$[-1.63, 1.63]$