

Quiz 7 Practice

For each function below, find the intervals on which f is increasing/decreasing and the local extrema.

(i) $f(x) = 5x^2 - 10x - 3$

(ii) $f(x) = -3x^3 - 9x^2 + 72x + 20$

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$$(iii) f(x) = x^4 + 4x^3 + 30$$

$$(iv) f(x) = (x+3)e^x$$