This quiz concerns the function $f(x) = 3x^4 - 4x^3 - 12x^2$.

1. Find the critical points of f.

2. Find the global extrema of f(x) on the interval [-1,1].

3. Find the global extrema of f(x) on the interval (1,4).

This quiz concerns the function $f(x) = 3x^4 - 16x^3 + 18x^2$.

1. Find the critical points of f.

2. Find the global extrema of f(x) on the interval [-1,1].

3. Find the global extrema of f(x) on the interval (0,2).