This quiz concerns the function  $f(x) = 3x + \frac{75}{x} + 10$ .

1. (10 points) Use the second derivative test to find the local extrema of f(x).

2. (5 points) Find the interval(s) on which f(x) is concave up.

This quiz concerns the function  $f(x) = 2x + \frac{8}{x^2}$ .

1. (10 points) Use the second derivative test to find the local extrema of f(x).

2. (5 points) Find the interval(s) on which f(x) is concave up.

This quiz concerns the function  $f(x) = 100 + 300x - x^3$ .

1. (10 points) Use the second derivative test to find the local extrema of f(x).

2. (5 points) Find the interval(s) on which f(x) is concave up.

This quiz concerns the function  $f(x) = x^3 - 75x + 10$ .

1. (10 points) Use the second derivative test to find the local extrema of f(x).

2. (5 points) Find the interval(s) on which f(x) is concave up.