Summer 2013 Mr. McGowan

AP Calculus AB Minuteman Tech

Quiz 8 – Derivative Applications



1) Find the intervals where f(x) is increasing and where f(x) is decreasing.

2) Find the intervals where f(x) is concave up and where f(x) is concave down.

3) Find all the x coordinates where there is a relative maximum or a relative minimum.

4) a) list all the critical points. b) list all the inflection points.

5) if s(t) = 3t3 - 4t2 - 6t +32 is the position function for an object moving in a straight line at time t, what is the function that describes the objects acceleration? a(t) = ?