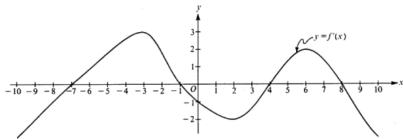
AP Calculus – Derivative Graph Interpolation Ch 4 Test 1 Review In Class



Note: This is the graph of the derivative of f, not the graph of f.

- Is f(x) differentiable on the interval [-10, 10]? Explain Is f(x) continuous on the interval [-10, 10]? Explain.

- 2) 3) 4) 5) 6) 7) 8)
- 9)
- Is f(x) continuous on the interval [-10, 10]? Explain.
 State the value(s) of x where the f'(x) is zero.
 State the value(s) of x where f(x) has a relative maximum. Justify.
 State the value(s) of x where f(x) has a relative minimum. Justify.
 State the interval(s) where f(x) is increasing. Justify.
 State the interval(s) where f(x) is decreasing. Justify.
 State the value(s) of x where f(x) has a point of inflection. Justify.
 State the interval(s) where f(x) is concave up. Use f' to justify your answer.
 State the interval(s) where f(x) is concave down. Use f' to justify your answer. 10)