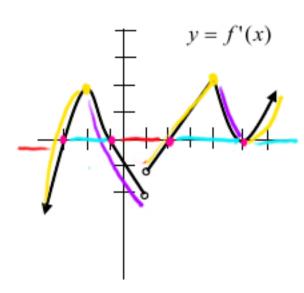
SQ 4.3

Date: 10/28/2626

For the following questions, refer to the graph of y = f'(x), the **DERIVATIVE** of f(x), show below. The domain of f(x) is all real numbers. Once again, this is the graph of the **DERIVATIVE!**



1. Find all critical points of the original function f(x). S(x)=0

2. Estimate the intervals over which the **original function** f(x) is increasing.

3. Estimate the intervals over which the **original function** f(x) is decreasing.

4. Estimate the intervals over which the **original function** f(x) is concave up. f''(y) > 0

5. Estimate the intervals over which the original function f(x) is concave down. $f(x) = \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \left(\frac{1}{2} \left($

6. Estimate the x-coord. of all local maximum points of the **original function** f(x).

7. Estimate the x-coord. of all the local minimum points of the **original function** f(x).

8. Estimate the x-coordinates of all inflection points of the **original function** f(x).