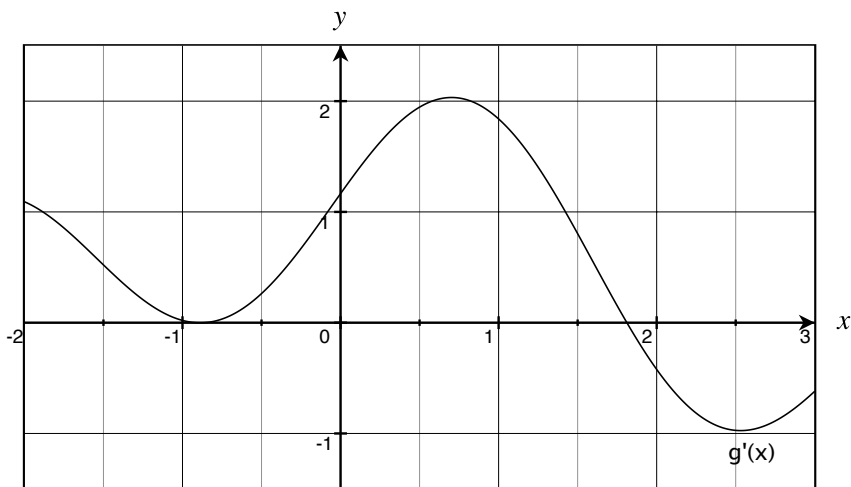


Name: \_\_\_\_\_

Math 105: Fall 2013  
Quiz 2: September 20

Good Luck!

1. The graph below is a graph of  $y = g'(x)$ , the derivative of  $g$ . Use the graph to answer the following questions. You will probably have to estimate some answers.



- (a) On what interval(s) is  $g'$  positive? Briefly justify your answer.
- (b) On what interval(s) is  $g'$  increasing? Briefly justify your answer.
- (c) On what interval(s) is  $g$  increasing? Briefly justify your answer.
- (d) On what interval(s) is  $g$  concave up? Briefly justify your answer.
- (e) For what  $x$ -value(s) does  $g$  have a local maximum? Briefly justify your answer.

OVER

2. The graph below is the graph of  $y = f(x)$ . List  $f'(-3.5)$ ,  $f'(-2)$ ,  $f'(1)$  in increasing order.

