7. [10 points] On the axes below sketch a well-labeled graph of a continuous function, g, which satisfies all of the following properties.

**a.** 
$$g'(x) = 2$$
 for  $1 < x < 2$ 

**b.** 
$$g'(x) = -2$$
 for  $2 < x < 3$ 

**c.** 
$$g(0) = -1$$

**d.** 
$$g(1) = 0$$

**e.** g is decreasing for x > 3

**f.** 
$$g''(x) < 0$$
 for  $x > 3$ 

**g.** g is concave down for x < 1

