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. $g^{\prime}(x)=2$ for $1<x<2$
b. $g^{\prime}(x)=-2$ for $2<x<3$
c. $g(0)=-1$
d. $g(1)=0$
e. $g$ is decreasing for $x>3$
f. $g^{\prime \prime}(x)<0$ for $x>3$
g. $g$ is concave down for $x<1$

