10. [10 points] Below is the graph of $f^{\prime}(x)$, the derivative of the function $f(x)$.

Note that $f^{\prime}(x)$ is zero for $x \leq-2$, linear for $-2<x<-1$, and constant for $-1<x<0$.


For each of the following, circle all of the listed intervals for which the given statement is true over the entire interval. If there are no such intervals, circle none.
You do not need to explain your reasoning.
a. [2 points] $f^{\prime}(x)$ is increasing.

$$
-2<x<-1 \quad 0<x<1 \quad 1<x<2 \quad 2<x<3 \quad \text { NONE }
$$

b. [2 points] $f^{\prime}(x)$ is concave up.

$$
0<x<1 \quad 1<x<2 \quad 2<x<3 \quad \text { NONE }
$$

c. [2 points] $f(x)$ is increasing.

$$
-2<x<-1 \quad-1<x<0 \quad 0<x<1 \quad 1<x<2 \quad 2<x<3 \quad \text { NONE }
$$

d. [2 points] $f(x)$ is linear but not constant.

$$
-3<x<-2 \quad-2<x<-1 \quad-1<x<0 \quad 0<x<1 \quad 1<x<2 \quad 2<x<3 \quad \text { NONE }
$$

e. [2 points] $f(x)$ is constant.

$$
-3<x<-2 \quad-2<x<-1 \quad-1<x<0 \quad 0<x<1 \quad 1<x<2 \quad 2<x<3 \quad \text { NONE }
$$

