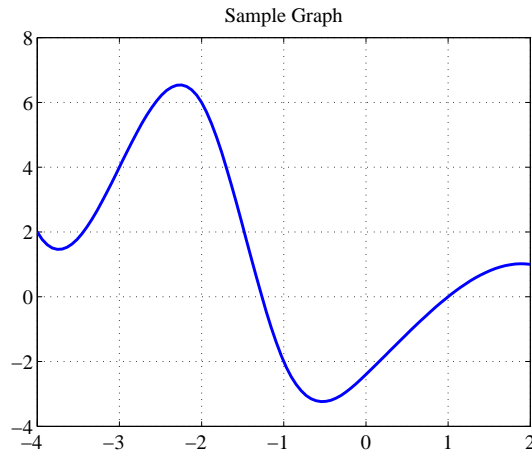


Use this graph to answer the 7 questions below:



1. If the graph above represents **the function** $f(x)$, in which of the following intervals is **the derivative** $f'(x)$ positive?
 - (a) $(-4,-3)$
 - (b) $(-3,-2)$
 - (c) $(-2,-1)$
 - (d) $(-1,0)$
 - (e) $(0,1)$

2. If the graph above represents **the derivative** $h'(x)$, which of the following is a critical point for **the function** $h(x)$?
 - (a) -2
 - (b) -1
 - (c) 0
 - (d) 1
 - (e) 2

3. If the graph above represents the **function** $f(x)$, which of the following points is an inflection point for $f(x)$?
 - (a) -3
 - (b) -2
 - (c) -1
 - (d) 0
 - (e) none of the above.

These questions also concern the graph on the previous page

4. If the graph above represents **the function** $f(x)$, in which of the following intervals is **the second derivative** $f''(x)$ positive?
 - (a) $(-4,-3)$
 - (b) $(-3,-2)$
 - (c) $(-2,-1)$
 - (d) all of the above
 - (e) none of the above

5. If the graph above represents **the derivative** $h'(x)$, in which of the following intervals is **the function** $h(x)$ concave down?
 - (a) $(-4,-3)$
 - (b) $(-3,-2)$
 - (c) $(-2,-1)$
 - (d) $(-1,0)$
 - (e) $(0,1)$

6. If the graph above represents **the derivative** $h'(x)$, which of the following is an inflection point for **the function** $h(x)$?
 - (a) -2
 - (b) -1.5
 - (c) -1
 - (d) -0.5
 - (e) 0

7. If the graph above represents the **second derivative** $g''(x)$, in which of the following intervals is **the function** $g(x)$ concave up?
 - (a) $(-3,-2)$
 - (b) $(-2,-1)$
 - (c) $(-1,0)$
 - (d) $(0,1)$
 - (e) none of the above.