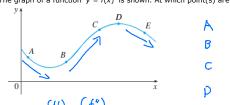


The graph of a function y = f(x) is shown. At which point(s) are the following true? (Select all that apply.) $y \uparrow \qquad \qquad f' \qquad \downarrow f''$



(a) $\frac{dy}{dx}$ and $\frac{d^2y}{dx^2}$ are both positive.



D ■ E

- (b) $\frac{dy}{dx}$ and $\frac{d^2y}{dx^2}$ are both negative.

 - B
 - C
 - D ■ E
- $\frac{dy}{dx}$ is negative but $\frac{d^2y}{dx^2}$ is positive.
- В
 - C
 - D
- E

Question Details

Consider the equation below. (If an answer does not exist, enter DNE.)

$$f(x) = x^3 - 3x^2 - 9x + 4$$

(a) Find the interval on which f is increasing. (Enter your answer using interval notation.) $\leftarrow f$ in d = (x - 3) + (x -

Find the interval on which f is decreasing. (Enter your answer using interval notation.)



local minimum value

local maximum value

Chitical # f(c.#)

(c) Find the inflection point.

$$(x,y) = (\begin{array}{|c|c|c|} \hline (1,-7) \\ \hline \end{array}) 0 = f''(x) = (x-6) = (x-1)$$

Find the interval on which f is concave up. (Enter your answer using interval notation.)



Find the interval on which f is concave down. (Enter your answer using interval notation.)



Assignment Details

Name (AID): Sec 12/13 wk10 ws (15571148)

Submissions Allowed: 5 Category: Homework

Code: Locked: No

Author: Greuling, Jason (jlgreuling@math.hawaii.edu)

Last Saved: Oct 24, 2019 07:11 PM HST Permission: Protected

Feedback Settings

Before due date Question Score Assignment Score Publish Essav Scores

Question Part Score Mark

Add Practice Button

SCalc8 3.3.009. [3353668]

3

Slope Charp of f