

Solutions

MATH 122: QUIZ 4 SECTIONS 2.1-2.2

Name: _____

1 (10 points). Use the graph of $f(x)$ below to:

a) State where the function is increasing,

$$(-\infty, -3) \cup (0, 3)$$

b) State where the function is decreasing,

$$(-3, 0) \cup (3, \infty)$$

c) State where the derivative is positive,

$$(-\infty, -3) \cup (0, 3)$$

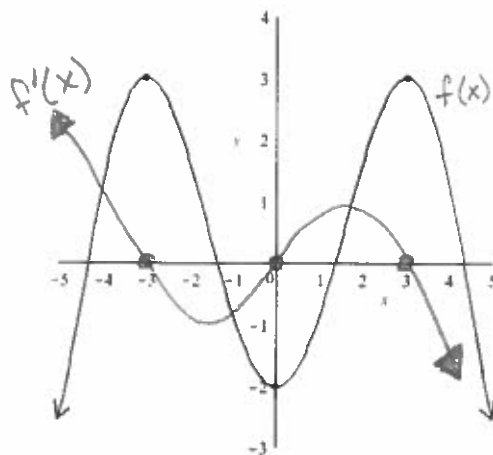
d) State where the derivative is negative,

$$(-3, 0) \cup (3, \infty)$$

e) State where the derivative is zero,

$$x = -3, 0, 3$$

f) Sketch the graph of the derivative.



2 (2 points). If you could meet any person, dead or alive, who would it be and why?

Tough question.

Nerdy answer: Paul Erdős; he was a revolutionary mathematician. He worked on lots of very different problems and travelled the world to work with people and sleep on their couches. He was like the internet for math before the internet existed.

Celebrity answer: Jerry Garcia or Janis Joplin