

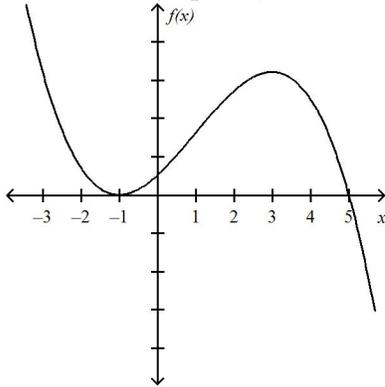
Chapter 4 Practice Test - Curve Sketching

Multiple Choice

Circle the choice that best completes the statement or answers the question. Also write the letter of your answer on the appropriate line.

K_/5, **T**_/5

- _____ 1. Below is the graph of $f(x)$. For what value(s) of x does $f(x)$ have a local maximum?



- | | |
|-------------|------------|
| a. $x = -1$ | c. $x = 5$ |
| b. $x = 3$ | d. None |
- _____ 2. Let $f(x)$ be a continuous function. If $f'(x) > 0$ for $x > c$ and $f'(x) < 0$ for $x < c$ then what type of critical point is $(c, f(c))$?
- | | |
|------------------|-------------------------------------|
| a. Local maximum | c. Neither a local max or local min |
| b. Local minimum | d. Unknown |
- _____ 3. Let $f(x) = x^3 + 3x + 4$. What are the critical value(s)?
- | | |
|-------------|-------------------------|
| a. $x = -1$ | c. $x = -1$ and $x = 1$ |
| b. $x = 1$ | d. None |

