6. (10 points) On the axes below, sketch a possible graph of a single function, y = f(x), given that: [Be sure to show appropriate labels on the x axis.]

- f is defined and continuous for all real x
- f has critical points at x = -1 and x = 3
- f is decreasing for x < 3
- f'(x) > 0 for x > 3
- f has inflection points at x = -1 and x = 1
- f'' is positive for x < -1

