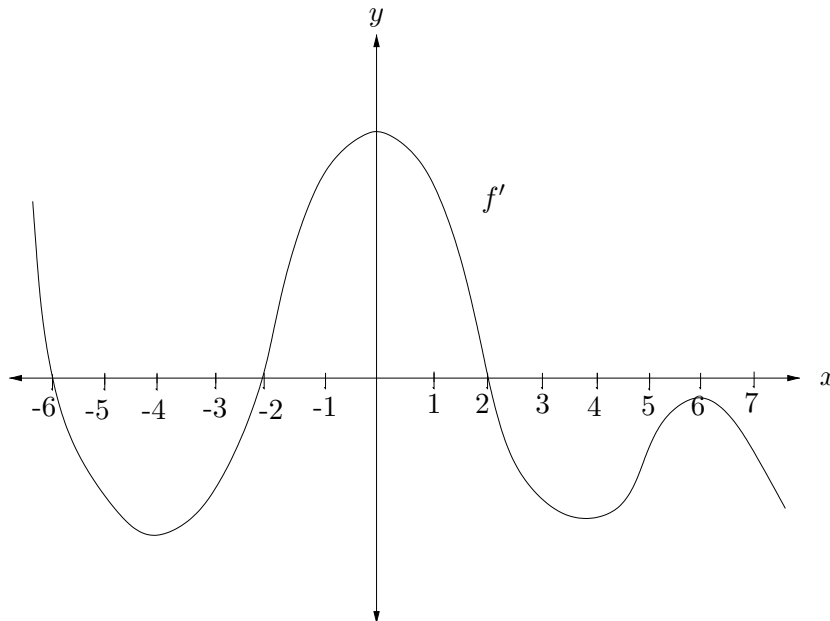


2. (14 points) The following is a graph of the **derivative** of f . The function f is defined for all real numbers.



- (a) For which values of x , if any, does f have a local maximum?

$$x = -6, 2$$

- (b) For which values of x , if any, does f have a local minimum?

$$x = -2$$

- (c) Which values of x , if any, are inflection points of f ?

$$x = -4, 0, 4, 6$$

- (d) Over which intervals is f increasing?

$$(-\infty, -6), (-2, 2)$$

- (e) Over which intervals is f concave down?

$$(-\infty, -4), (0, 4), (6, \infty)$$