Sketch the graph of a function $f$ that has the following properties:

- $f$ is positive
- $f'$ is negative
- $f''$ is positive

Sketch the graph of a function $f$ that has the following properties:

- $f$ is negative
- $f$ has a vertical asymptote at $x = 5$
- $f$ has a horizontal asymptote at $y = -1$
- $f'$ is negative on the interval $(-\infty, 5)$
- $f'$ is positive on the interval $(5, \infty)$
- $f''$ is negative
Sketch the graph of a function \( f \) that has the following sign charts:

- **sign chart for \( f \)**
  - \( f \) is negative
  - \( f \) is zero
  - \( f \) is positive
  - \( x \): 1, 7

- **sign chart for \( f' \)**
  - \( f' \) is zero
  - \( f' \) is positive
  - \( f' \) is negative
  - \( f' \) is zero
  - \( f' \) is positive
  - \( x \): 1, 5

- **sign chart for \( f'' \)**
  - \( f'' \) is negative
  - \( f'' \) is zero
  - \( f'' \) is positive
  - \( x \): 3