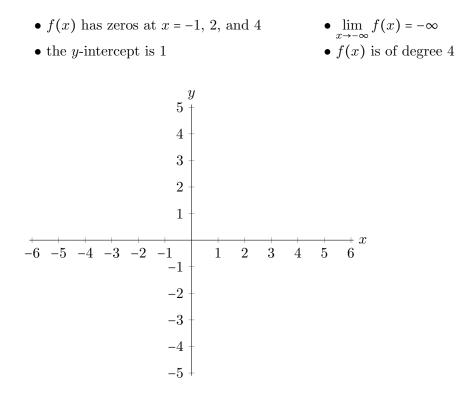
## **8**. [8 points]

**a**. [4 points] Sketch a graph of a polynomial f(x) satisfying the following conditions:



- **b.** [4 points] Write a possible formula for the graph of the rational function shown below. For clarity, its features are also described below.
  - the y-intercept is 1.5
  - $\bullet$  the zeros are -3 and 1.

- horizontal asymptote of y = 2
- vertical asymptotes of x = -2 and x = 2

