



F) Use limits to describe the behavior at the vertical asymptote(s)

G) Sketch a graph

$$\lim_{x \rightarrow 3^-} f(x) = -\infty$$

$$f(x) = \frac{x^2 - x - 2}{x - 3} \quad f(2.5) = \frac{2.5^2 - 2.5 - 2}{2.5 - 3} < 0$$

$$\lim_{x \rightarrow 3^+} f(x) = \infty$$

$$f(4) = \frac{4^2 - 4 - 2}{4 - 3} > 0$$

