Q1) Sketch a possible graph
a) \( \lim_{x \to 0^+} f(x) = +\infty, \quad \lim_{x \to 0^-} f(x) = -\infty \)
b) \( \lim_{x \to -\infty} f(x) = 0, \quad \lim_{x \to +\infty} f(x) = 2 \)
c) \( f(0) = 0 \)

Also write answers to following
Horizontal asymptote(s) are:

Vertical asymptote(s) are:

Q2) Find \( \lim_{x \to 0} \frac{5x}{\sqrt{2x + 9} - 3} \)