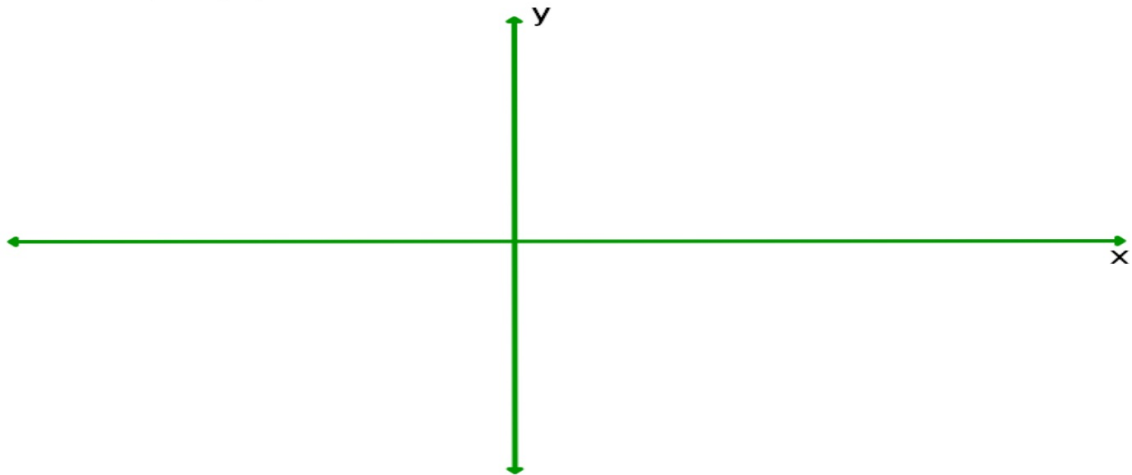1. Use this function: $y = \dfrac{2x^2 - 18}{x^2 - 2x - 24}$ $\dfrac{2(x+3)(x-3)}{(x-6)(x+4)}$

a. Find the VA and HA, if any. Put these on the graph as dashed lines.

b. Find the x and y intercepts, if any. Put these on the graph

c. Find the behavior of the graph on each side of each VA.

d. Sketch the complete graph of the rational function.

2. Use this function: $y = \dfrac{x + 1}{x^2 - 3x - 10}$ $\dfrac{x+1}{(x-5)(x+2)}$

a. Find the VA and HA, if any. Put these on the graph as dashed lines.

b. Find the x and y intercepts, if any. Put these on the graph

c. Find the behavior of the graph on each side of each VA.

d. Sketch the complete graph of the rational function.