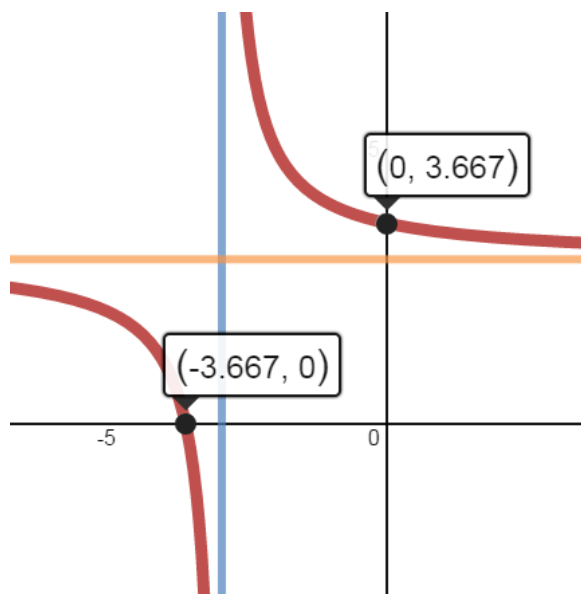


Use the functions below...

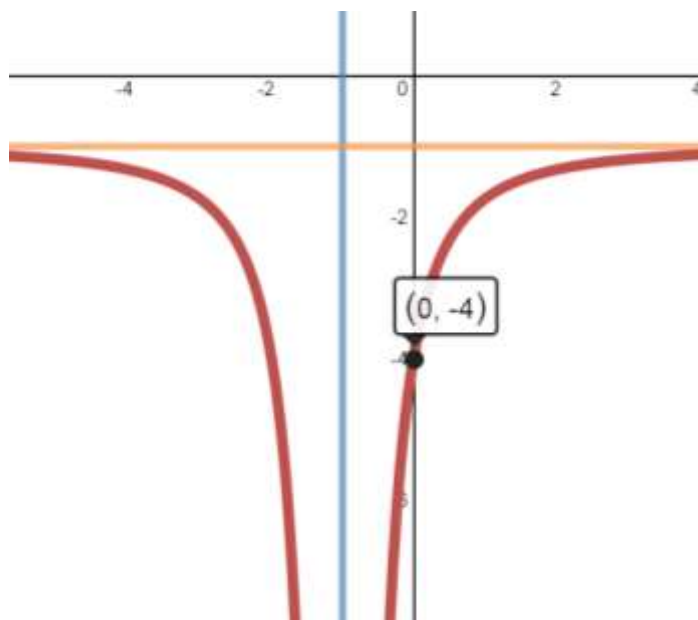
A - Write them as rational functions.

B - Graph the functions on the graphs provided. Be sure to identify each asymptote and the y-intercepts of each.

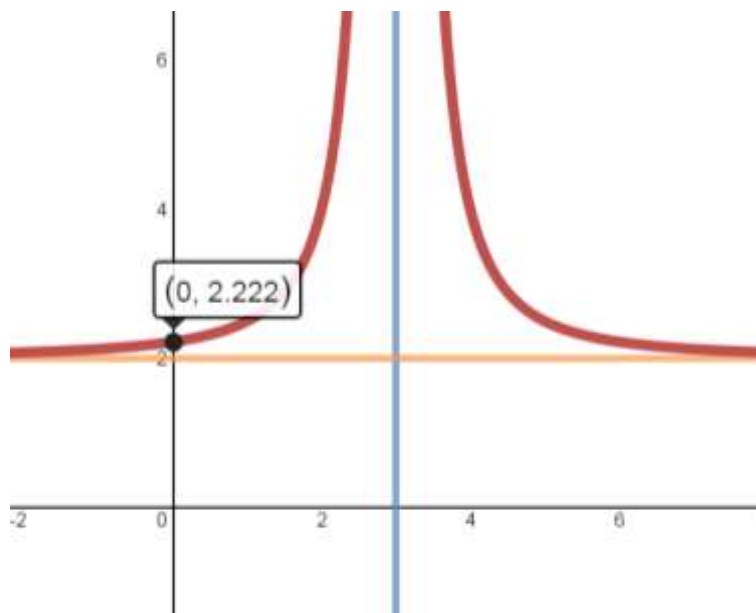
a.  $f(x) = \frac{2}{x+3} + 3 = \frac{3x+11}{x+3}$



b.  $g(x) = -1 - \frac{3}{(x+1)^2} = \frac{-x^2-2x-4}{(x+1)^2}$



c.  $h(x) = 2 + \frac{2}{(x-3)^2}$   
 $= \frac{2x^2 - 12x + 20}{(x-3)^2}$

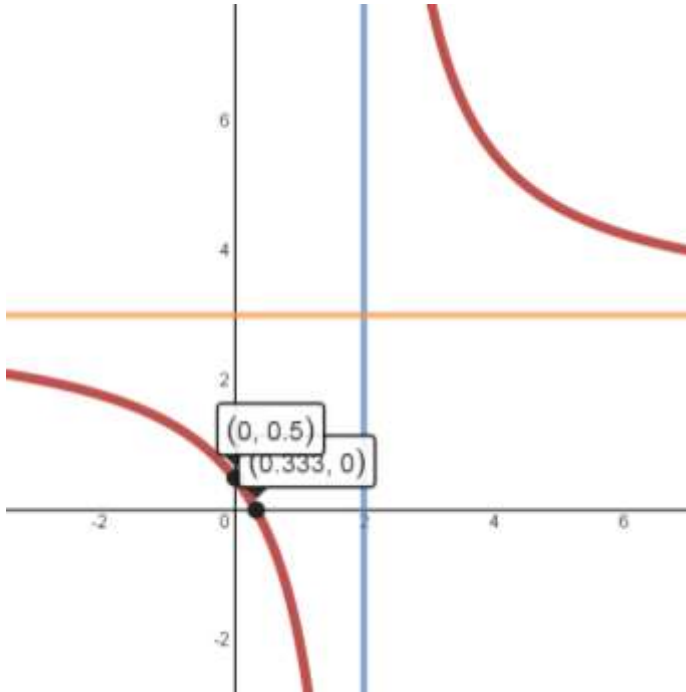


Use the functions below...

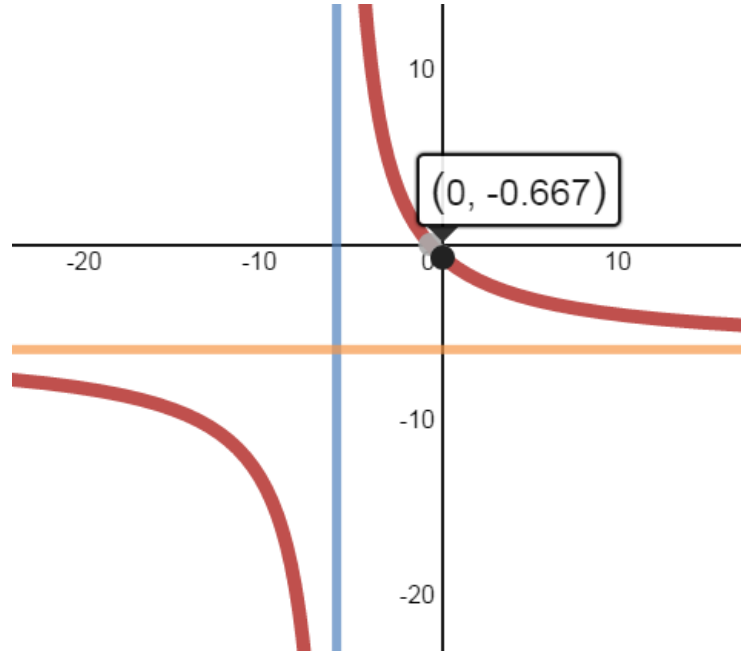
A - Write them in  $f(x) = \frac{a}{x-h} + k$  form.

B - Graph the functions on the graphs provided. Be sure to identify each asymptote and the y-intercepts of each.

a.  $f(x) = \frac{3x-1}{x-2} = \frac{5}{x-2} + 3$



b.  $g(x) = -\frac{6x+4}{x+6} = \frac{32}{x+6} - 6$



c.  $h(x) = \frac{-5x-5}{x-1} = -5 - \frac{10}{x-1}$

