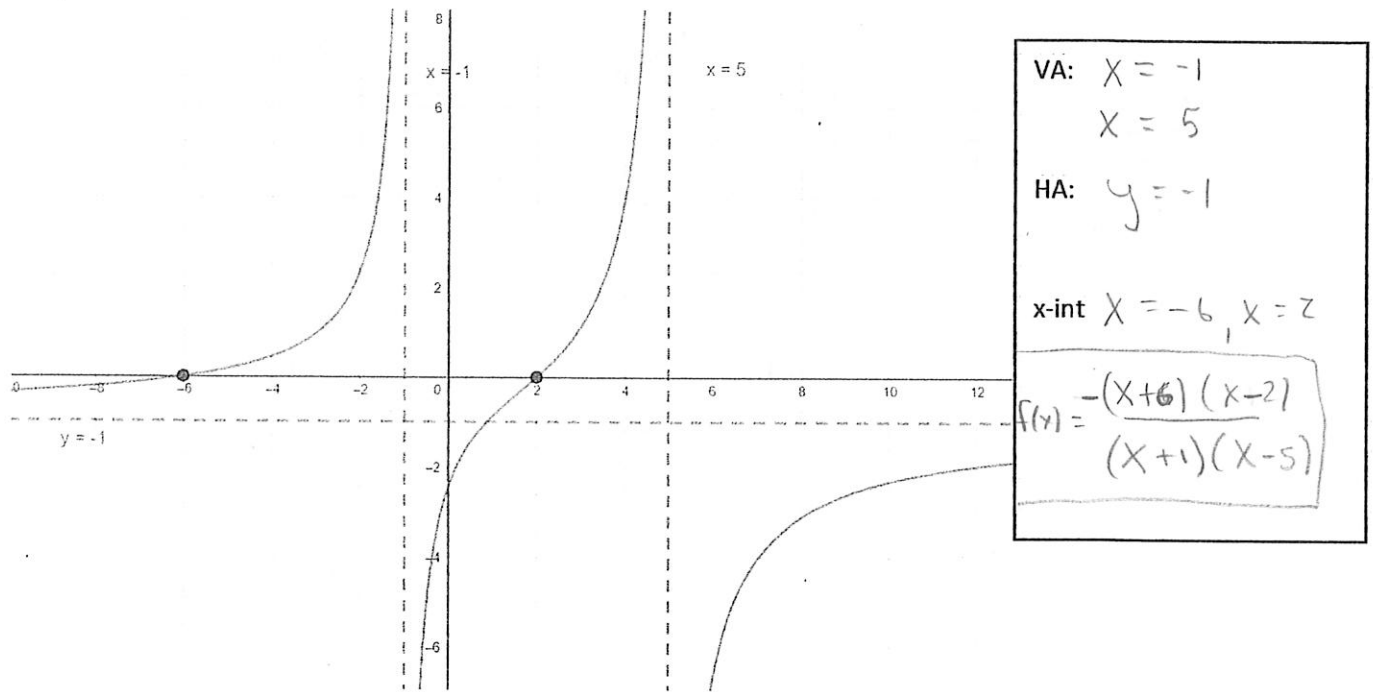


Key

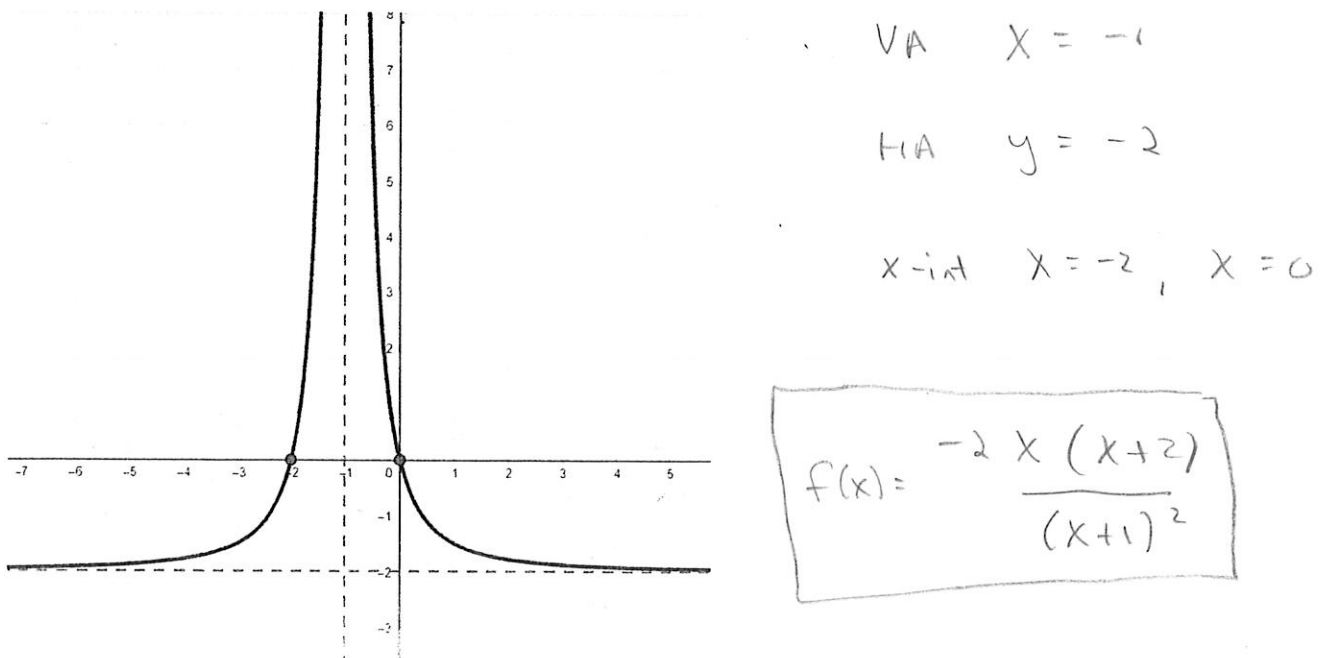
3.5 Notes on Writing Rational Functions Given a Graph

For each of the following, write an equation of a rational function, f , having the graph shown.

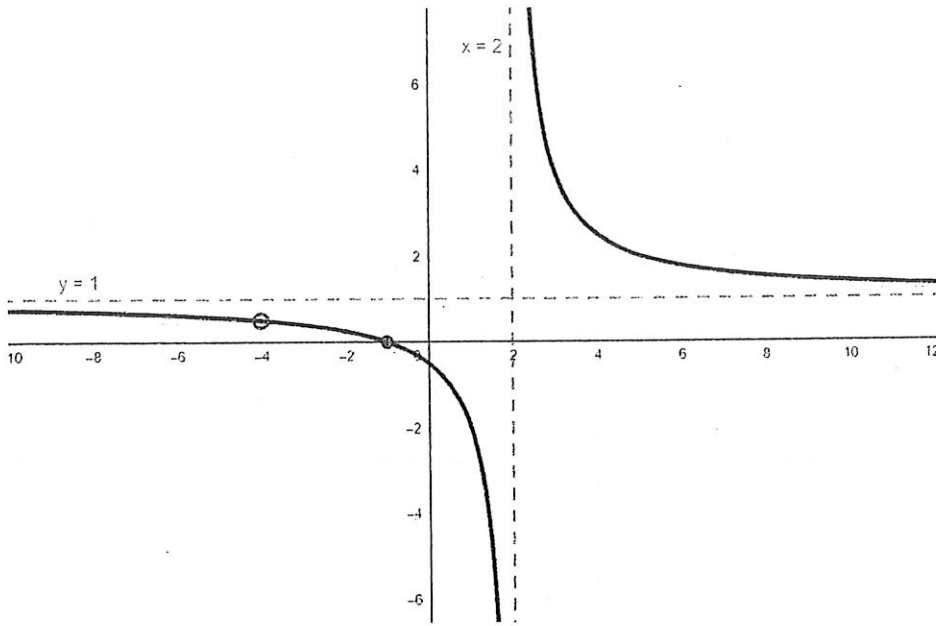
Ex 1)



Ex 2)



Ex 3)



VA $x = 2$

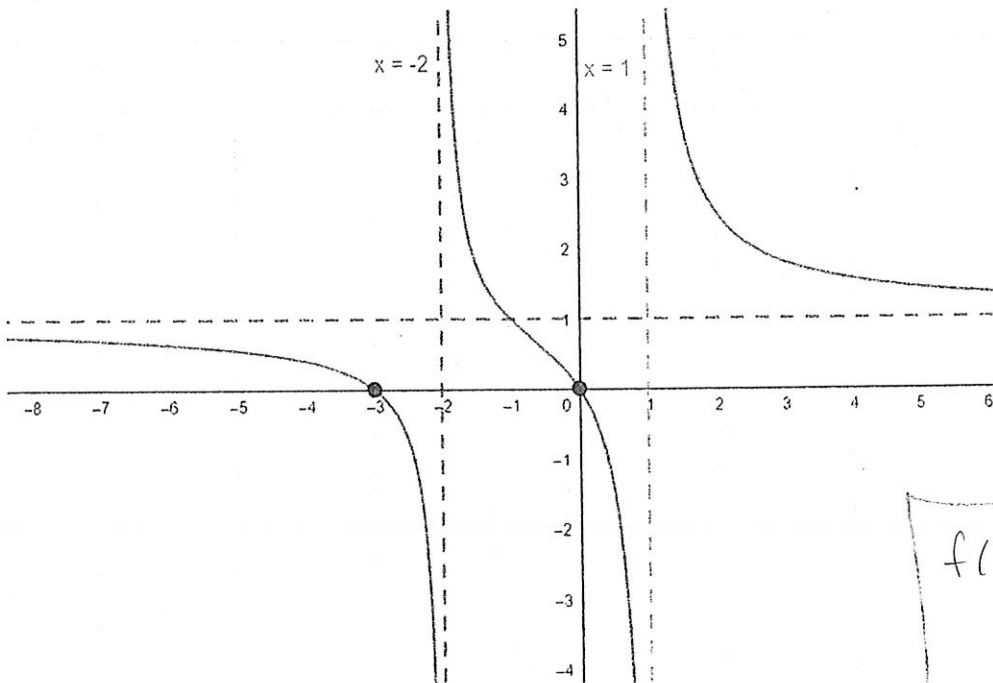
H/A $y = 1$

X-int $x = -1$
(Zero)

Hole at $x = -4$

$$f(x) = \frac{(x+1)(x+4)}{(x-2)(x+4)}$$

Ex 4)



VA $x = -2$

$x = 1$

H/A $y = 1$

X-int $x = -3$

zero $x = 0$

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