01/12/2023 - Ch6 HW

(5) y int = 1
x int = -1, 1

$y = (x+1)(x-1)^2$

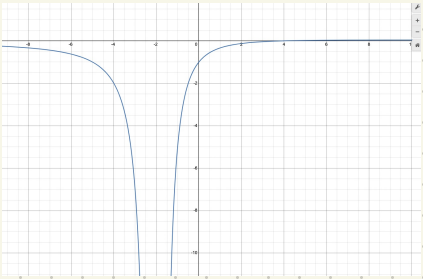
(9) (a) $f(x) = \frac{x-4}{(x+2)^2}$

x int = 4

y int = -1

Horizontal asymptote = 0

Vertical asymptote = -2



(b) $f(x) = \frac{x+3}{x^2+3x}$

y int = ∅

x int = ∅

$= \frac{x+3}{x^2+3x}$ (x^2+3x)

$0 = x+3$
$-3 \quad -3$
$-3 = x$

Vertical asymptote = 0

Horizontal asymptote = 0