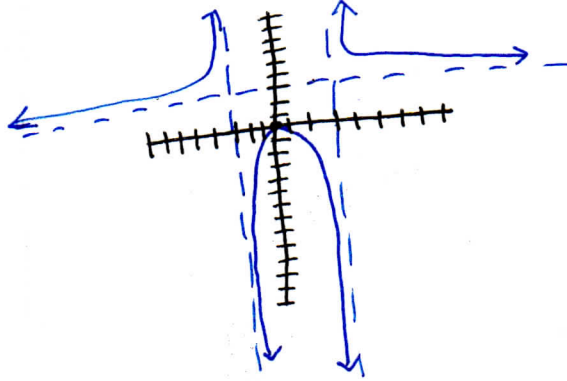


24. $y = \frac{3x^2}{(x+3)(x-3)}$

D: $\mathbb{R}, x \neq -3, 3$
 holes: NONE
 V.A. $x = -3, x = 3$
 H.A. $y = 3$



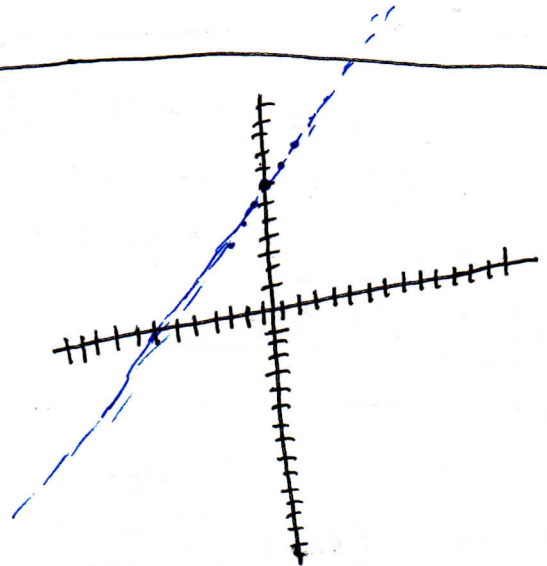
x-int: $0 = 3x^2$
 $0 = x^2$
 $0 = x$
 (0,0)

y-int: $y = \frac{3(0)^2}{(0+3)(0-3)} = \frac{0}{3(-3)} = \frac{0}{-9} = 0$ (0,0)

25. $f(x) = \frac{(x+7)(x-7)}{(x-7)}$

D: $\mathbb{R}, x \neq 7$
 holes: $x = 7$
 V.A. NONE
 H.A. NONE
 SLANT: $y = x + 7$

$$\begin{array}{r} x+7 \\ x-7 \overline{) x^2 + 0x - 49} \\ \underline{-x^2 + 7x} \\ 7x - 49 \\ \underline{-7x + 49} \\ 0 \end{array}$$



x-int: $0 = (x+7)(x-7)$
 \uparrow \uparrow
 $x = -7$ $x = 7$
 (-7,0) \uparrow not in Domain
 X

y-int: $y = \frac{(0)^2 - 49}{(0-7)} = \frac{-49}{-7} = 7$

(0,7)
 \uparrow not in Range (slant)