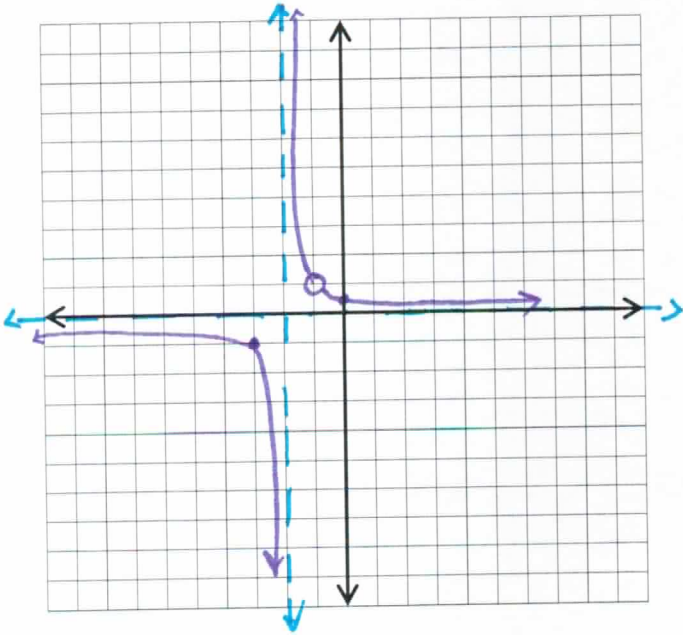


$$1. f(x) = \frac{x+1}{x^2+3x+2} = \frac{(x+1)}{(x+1)(x+2)} = \frac{1}{x+2}$$

R.D. (-1, 1)
VASY x = -2
HASY y = 0

x.int none
y.int (0, 1/2)

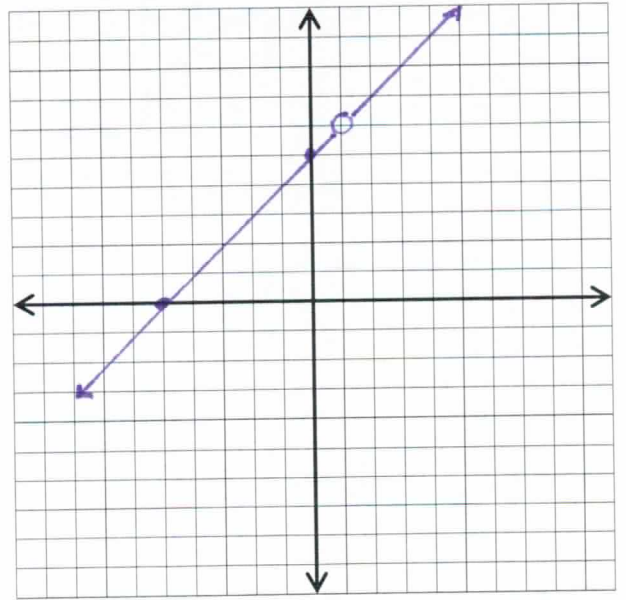
x	y
-3	-1



$$2. f(x) = \frac{x^2+4x-5}{x-1} = \frac{(x+5)(x-1)}{x-1} = x+5$$

R.D. (1, 6)
VASY none
HASY none

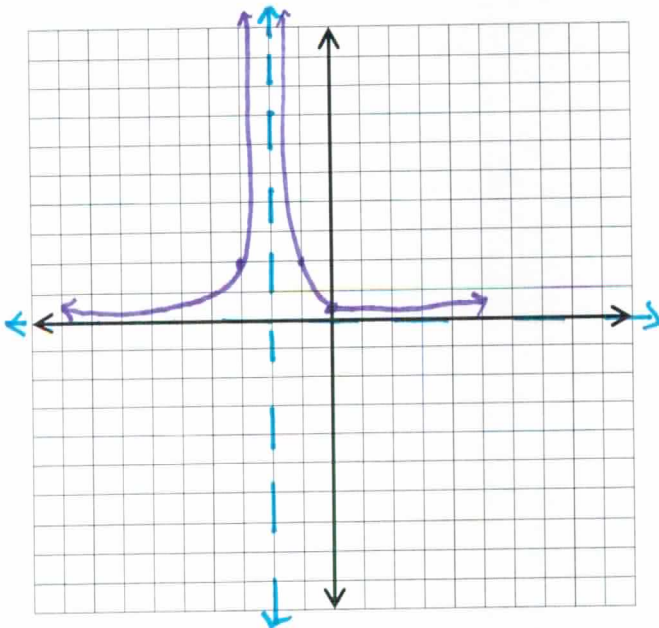
x.int (-5, 0)
y.int (0, 5)



$$3. f(x) = \frac{2}{x^2+4x+4} = \frac{2}{(x+2)^2}$$

VASY x = -2
HASY y = 0

x.int none
y.int (0, 1/2)

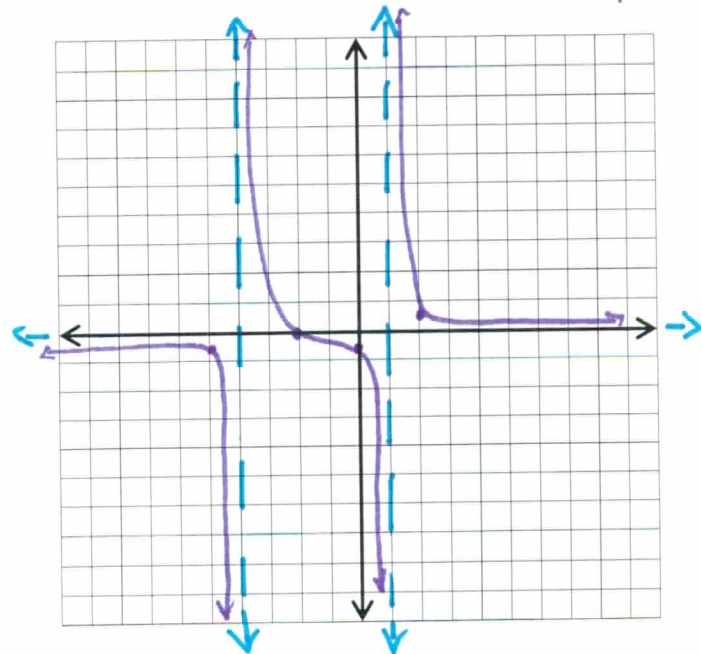


$$4. f(x) = \frac{x+2}{x^2+3x-4} = \frac{x+2}{(x+4)(x-1)}$$

VASY x = -4, 1
HASY y = 0

x.int (-2, 0)
y.int (0, -1/2)

x	y
-5	-1/2
2	2/3



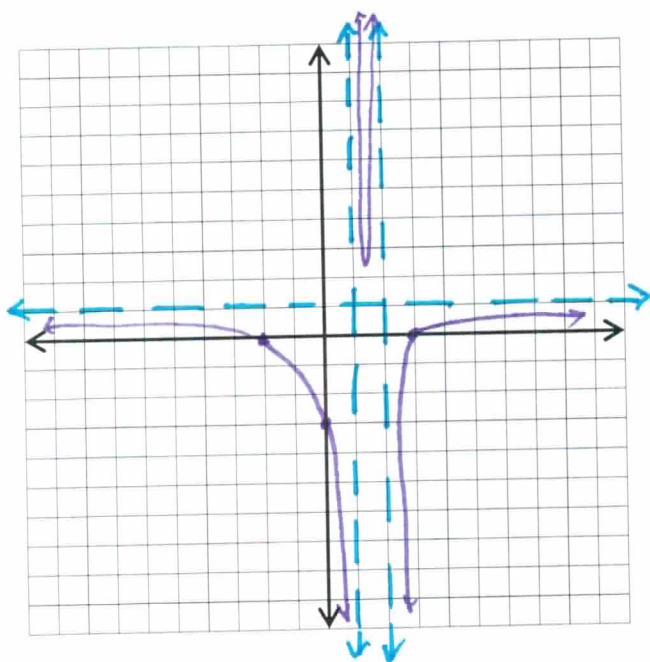
$$5. f(x) = \frac{x^2 - x - 6}{x^2 - 3x + 2} = \frac{(x-3)(x+2)}{(x-2)(x-1)}$$

VASY $x = 1, 2$

x.int $(3, 0)$ $(-2, 0)$

HASY $y = 1$

y.int $(0, -3)$



$$6. f(x) = \frac{x^2 + 6x - 7}{x^2 - 1} = \frac{(x+7)(x-1)}{(x+1)(x-1)} = \frac{x+7}{x+1}$$

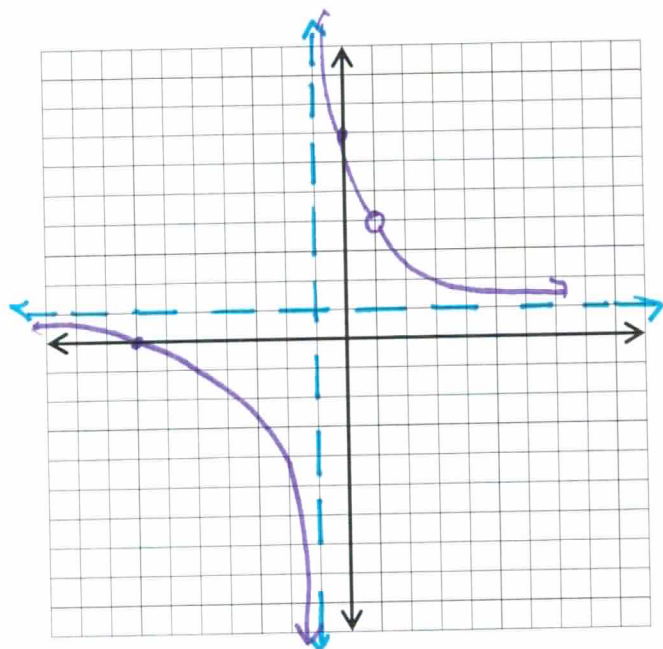
RD $(1, 4)$

VASY $x = -1$

HASY $y = 1$

x.int $(-7, 0)$

y.int $(0, 7)$



$$7. f(x) = \frac{x-1}{x^2 + 4x + 3} = \frac{x-1}{(x+1)(x+3)}$$

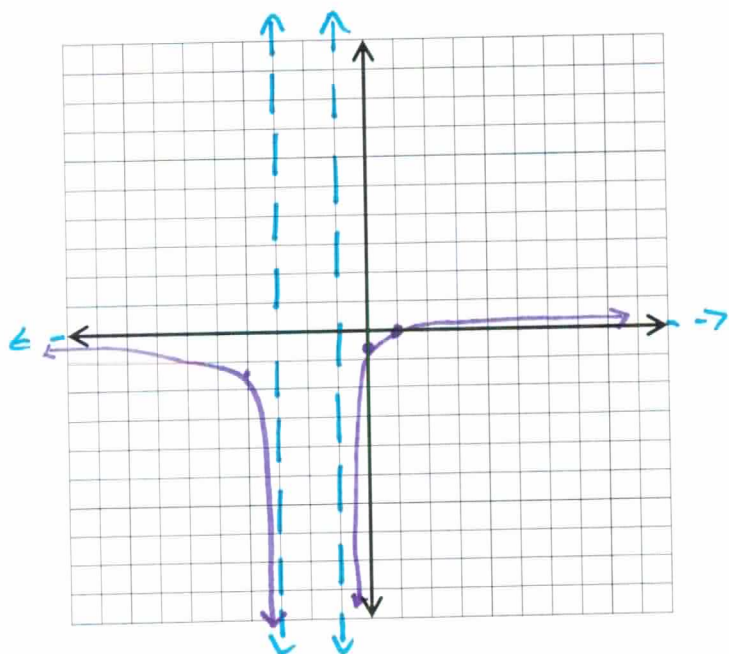
VASY $x = -1, -3$

x.int $(1, 0)$

HASY $y = 0$

y.int $(0, -1/3)$

$$\begin{array}{r|l} x & y \\ 2 & 1/15 \\ -4 & -5/3 \end{array}$$



$$8. f(x) = \frac{x+3}{x^2 + 7x + 12} = \frac{x+3}{(x+3)(x+4)} = \frac{1}{x+4}$$

RD $(-3, 1)$

VASY $x = -4$

HASY $y = 0$

x.int none

y.int $(0, 1/4)$

$$\begin{array}{r|l} x & y \\ -5 & -1 \end{array}$$

