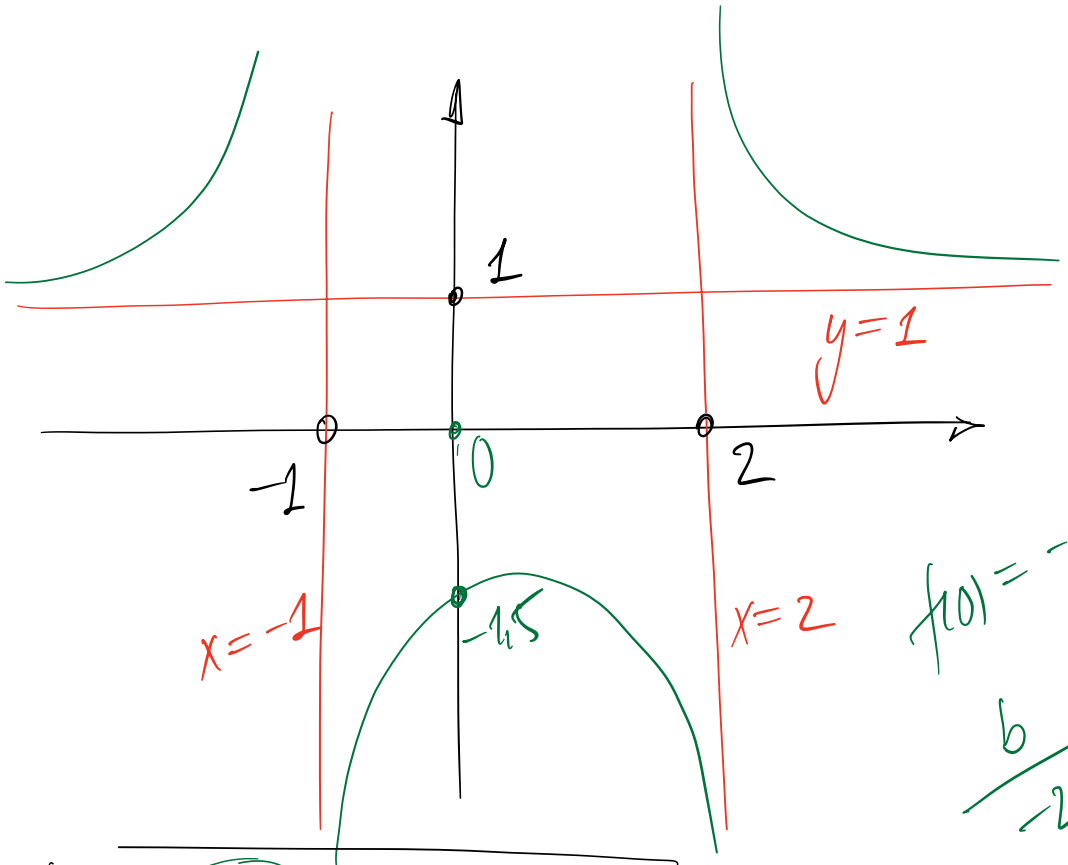

$f(0) = -1,5$

$\frac{b}{-2} + 1 = -1,5$

$b = 5$

$$\frac{2x+6}{(x+1)(x-2)} + 1$$

A.V.

A.H.

A.O.

$x \to \infty$

0

1

$$3x-7+\frac{2}{(x+2)(x-1)} = f(x) \qquad f(-5)=20$$

$$3\cdot(-5)-7+\frac{2}{(-5+2)(-5-1)}=20$$

$$-15-7+\frac{2}{(-3)\cdot(-6)}=20 \quad \Leftrightarrow \quad -22+\frac{2}{18}=20$$

$$\Leftrightarrow \quad -22\cdot 18+2=20\cdot 18$$

$$\Leftrightarrow \quad 2=20\cdot 18+22\cdot 18$$

$$\frac{2}{18}=42 \quad / \quad 2=42\cdot 18$$
$$=756$$

$$3x-7+\frac{756}{(x+2)(x-1)} = 3x-7+\frac{756}{x^2+x-2}$$

44 a)

A.V. en $x = -1{,}5$

A.H en $y = -2$

$f(1) = 0$

$\lim_{x \to \infty} f(x) = -2$

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

$D_f = \mathbb{R} - \{-1{,}5\}$

$-1{,}5 + 1{,}5 = 0$

$$-2 + \frac{a}{1 + 1{,}5} = 0$$

$$\frac{a}{2{,}5} = 2 \quad / \; a = 5$$

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

$$= \frac{-2(x + 1{,}5)}{1(x + 1{,}5)} + \frac{5}{x + 1{,}5} = \frac{-2(x + 1{,}5) + 5}{(x + 1{,}5)}$$