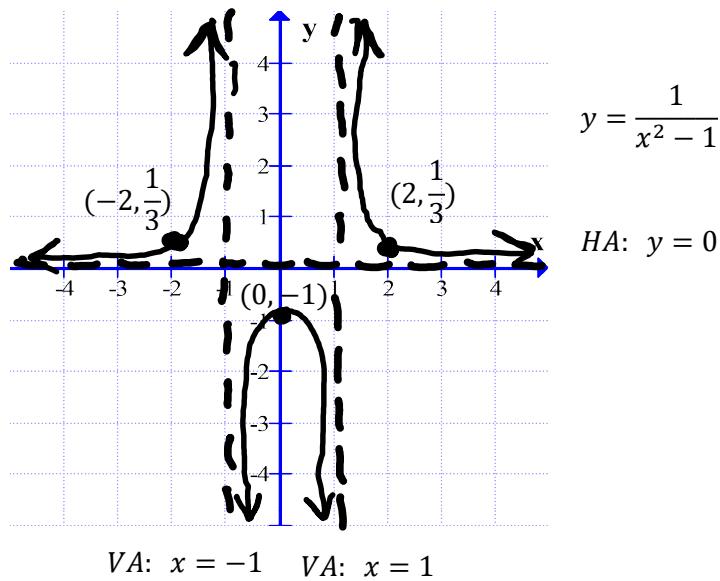


C12 - 9.4 - Graph 2xVA's Notes



x	y
-2	$\frac{1}{3}$
-1	und
0	-1
1	und
2	$\frac{1}{3}$

VA:

$$x^2 - 1 = 0$$

$$(x + 1)(x - 1) = 0$$

$$x + 1 = 0 \quad x - 1 = 0$$

$$x = -1 \quad x = 1$$

$x - int:$

$$y = \frac{1}{x^2 - 1}$$

$$0 = \frac{1}{x^2 - 1}$$

$$0 \neq 1$$

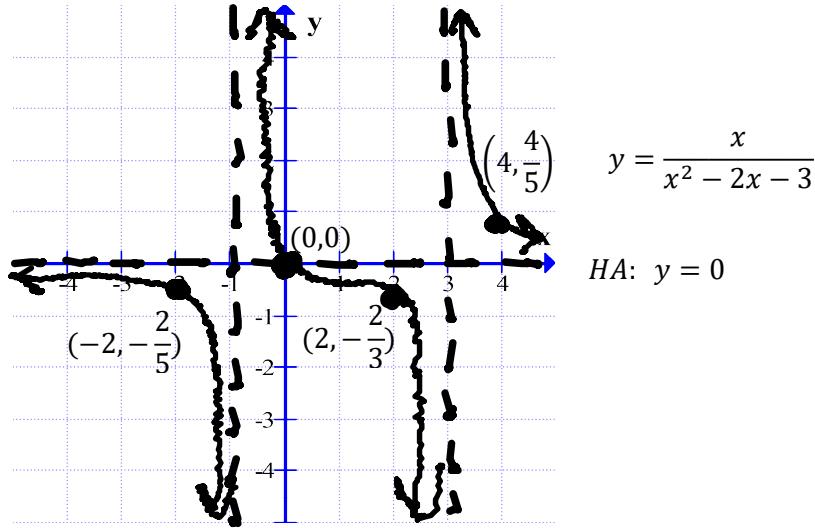
$y - int:$

$$y = \frac{1}{x^2 - 1}$$

$$y = \frac{1}{0^2 - 1}$$

$$y = -1$$

(0, -1)



x	y
-2	$-\frac{2}{5}$
-1	und
0	0
2	$-\frac{2}{3}$
3	und
4	$\frac{4}{5}$

VA:

$$x^2 - 2x - 3 = 0$$

$$(x + 1)(x - 3) = 0$$

$$x + 1 = 0 \quad x - 3 = 0$$

$$x = -1 \quad x = 3$$

$x - int:$

$$0 = \frac{x}{x^2 - 2x - 3}$$

$$0 = x$$

$$x = 0$$

$y - int:$

$$y = \frac{0}{0^2 - 2(0) - 3}$$

$$y = 0$$

(0, 0)