$$y = \frac{8x^2 - 8x + 2}{1 - 9x^2}$$

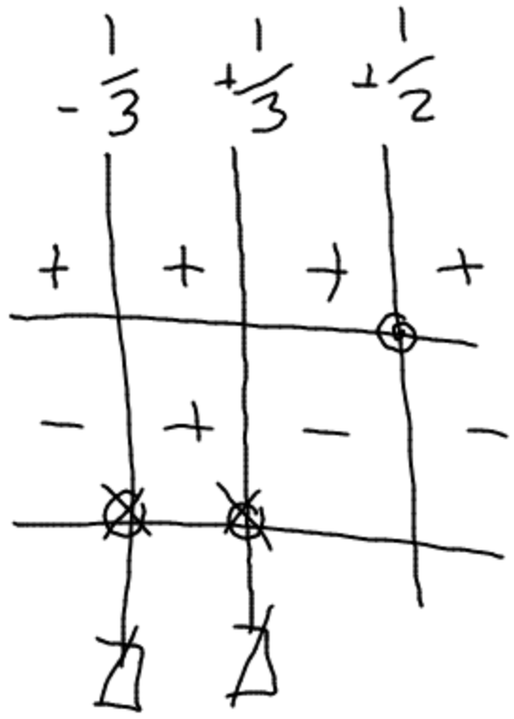
$$D = \left\{ \forall x \in \mathbb{R} : x \neq -\frac{1}{3} ; x \neq +\frac{1}{3} \right\}$$

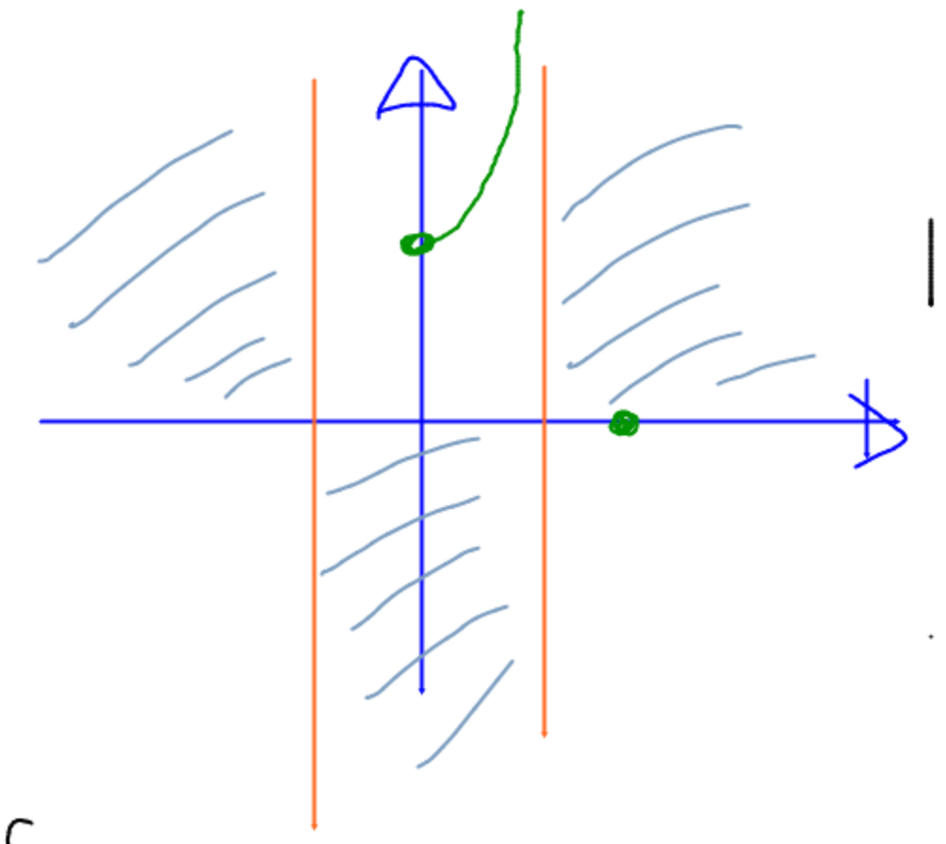
$$y = \frac{2(4x^2 - 4x + 1)}{1 - 9x^2}$$

$$y = \frac{2(2x-1)^2}{1 - 9x^2}$$

$2(2x-1)^2$

$1 - 9x^2$





$$D = \left] -\infty ; -\frac{1}{3} \right[\cup \left] -\frac{1}{3} ; +\frac{1}{3} \right[\cup \left] +\frac{1}{3} ; +\infty \right[$$

INTERSEZIONE ASSE X =

$$\begin{cases} Y = 0 \\ x = \frac{1}{2} \end{cases}$$

ASSE Y

$$\begin{cases} x = 0 \\ y = 2 \end{cases}$$

ASINTOTI VERT. $x = -\frac{1}{3}$ $x = \frac{1}{3}$

$$f(0{,}3333) = \frac{8(0{,}3333)^2 - 8(0{,}3333) + 2}{1 - 9(0{,}333)^2} = 1111{,}61$$

$$f(0{,}3334) =$$

$$y = \frac{x+2}{3-x}$$

AS. VERT. $x = 3$

	-2		3	
$x+2$	$-$	0	$+$	$+$
$3-x$	$+$	$+$	0	$-$
		$\exists$		

$f(2) = 4$

$f(2{,}99) = 499$

$\lim_{x \to 3^-} y = +\infty$

$f(-10.000)$

$\lim_{x \to -\infty}$

$f(3{,}01) = -501$

$f(3{,}001) = -5001$

$\lim_{x \to +\infty}$

$y = -1$

$\lim_{x \to 3^+} y = -\infty$

$f(10.000)$