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

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 $(-2, 1/2)$  | Case, Solvour

D:  $x \neq 1$ 

VELLUTARS

$$5(x) = \frac{4x - 1(1, x) - (-1)(2x^2 - x) - 1}{(x - x)^2} = \frac{2x^2 + 4x}{(x - x)^2}$$
 $2x^2 + 4x = 0$ 
 $4x =$ 

CANDOMES

MIN=1

O ABSOCUTE MININUM

14x = 11

73 MIKAM MUCLAR S-

$$y^{2}=3x+2>0$$
 $g-4(2)$ 
 $\frac{3+4}{2}$ 

5 CONTINUOUS

un 5(x)= + 00

un f(1) =-10

1) If 
$$\lambda^{2}3x+271$$
345  $\lambda^{2}-3x+170$ 
+ 34V5

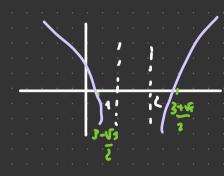
$$\frac{5(1)}{x^{2}-3x+2} = \frac{2x-3}{x^{2}-3x+2} \times (-\infty,1) \cup (2,+\infty)$$

you asymbotes

SIGN OF 5'(x)

$$2x - 3 = 0$$
;  $x = (3/2)$ 
 $x^2 - 3 \times 2$  70  $\forall x \in \mathbb{R}$ 

This purposes on 
$$C$$
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$$S(x) = |x^{2}-1| - \frac{1}{2}x^{3} = 0: |R|$$

$$x^{2}-1>0; \quad \frac{1}{2} + \frac{1}{2}; \quad (-40, -1) \cup (1, + 40)$$

$$x^{2}-1<0 = (-1, 1)$$

$$S = 0 \text{ for on } |R|$$

CIM 
$$5(7) = 700$$
 $x = 100$ 
OFNIMTES

$$\begin{cases} x^{\frac{2}{4} - \frac{1}{2} x^{\frac{3}{2}}} & (-1) \cup (1, +\infty) \\ 1 - x^{\frac{2}{2} - \frac{1}{2} x^{\frac{3}{2}}} & (-1, 1) \end{cases}$$

$$S'(x) = \begin{cases} -\frac{3}{2}x^2 + 2x & [\lambda(7)] \\ -\frac{3}{2}x^2 - 2x & |x| < 1 \end{cases}$$

THAT U X + 1 , x +1

X = -1, 1

SIGN OF 3'(x)

[X|71 5'(x)70 THAT 1] - 
$$\frac{3}{2}x^2 + 2x 70$$
 $\frac{x(-\frac{3}{2}x+2)}{0}$ 
 $\frac{x(-\frac{3}{2}x+2)}{-|+|-|+|-|}$ 

CONSIDERING SNLY  $|x|71$ 
 $|x|(x) = 0$ 

LIT 
$$\frac{(SIN(2(x-1))^2)^2}{(SIN(2(x-1))^2)^2}$$

CHANGE OF VARIABLE  $7 = x - 1 / 2 / 2 = 2 / 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2 / 2 = 2$ 

$$\begin{array}{cccc}
Un & \frac{e^2-1}{82} & \left(\frac{e^2}{8}\right) \\
Hopitac & \frac{e^2}{2} & \frac{1}{8}
\end{array}$$