

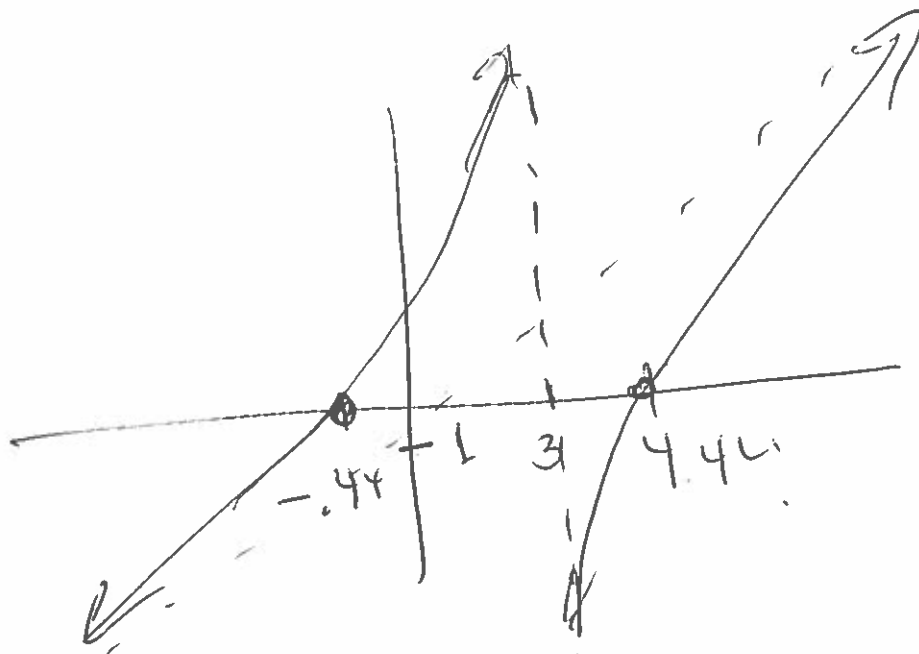
#13 DAY 8

$$\frac{x^2 - 4x + 2}{x - 3} =$$

ZN: -0.449... 146
4.449... 116
ZD: 3

END?

DN = 2
DD = 1



Slant asymptote

DS = $\frac{DN - DD}{2 - 1} = 1$ ODD

LS = $\frac{LN}{LD} = 1/1 = \text{POSITIVE}$

} Disco Right

Slant Asymptote

$x - 1 \frac{2}{x - 3}$

$x - 3$

$$\begin{array}{r} x^2 - 4x + 2 \\ -(x^2 - 3x) \\ \hline -x + 2 \\ -(-x + 4) \\ \hline -2 \end{array}$$

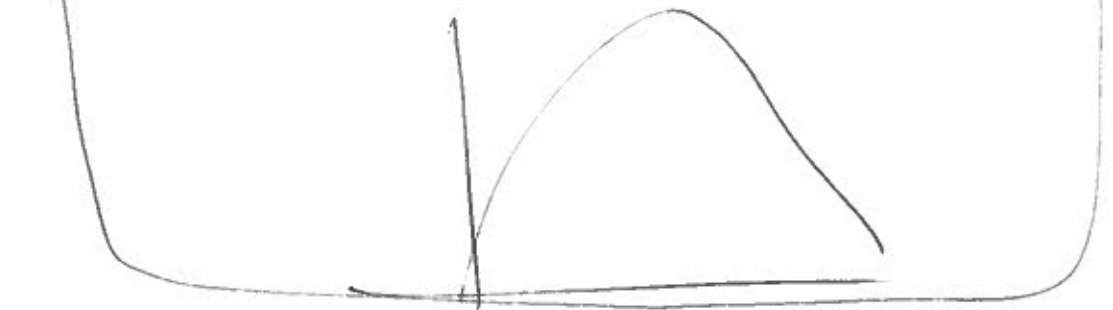
Day 8
#

$$Y_1 = (5 - 3x) / 2 (3 - 2x) x$$

$$x_{\min} = 0$$

$$x_{\max} = 3/2$$

Zoom 0: zoom fit



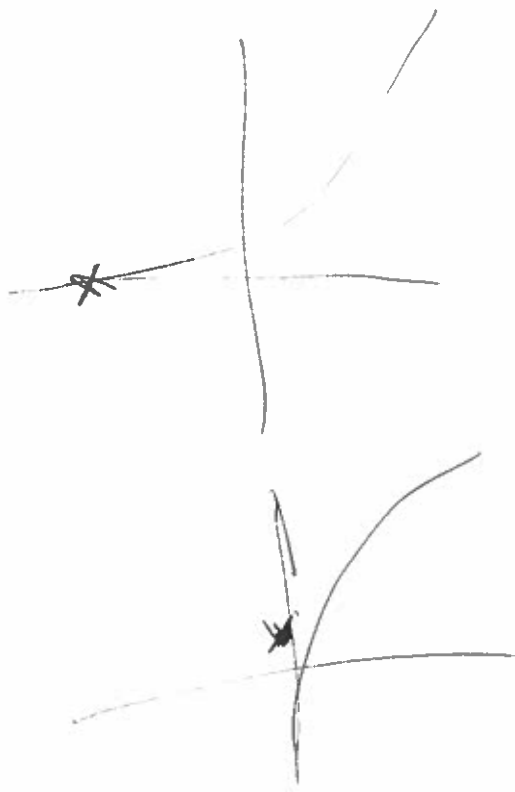
Calc 4: max

Left: 0

Right: 1.5

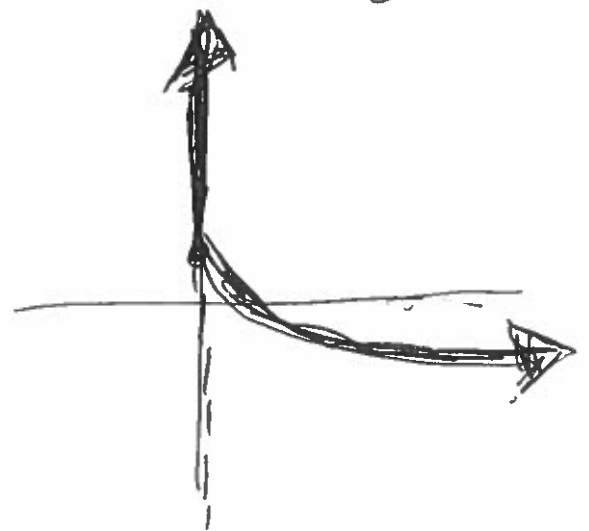
Guess: 1.5

$$x = .52559\dots \quad y = 1.7531\dots$$



$$-\log_3 x$$

$$y_1 = -\log(x) / \log(3)$$

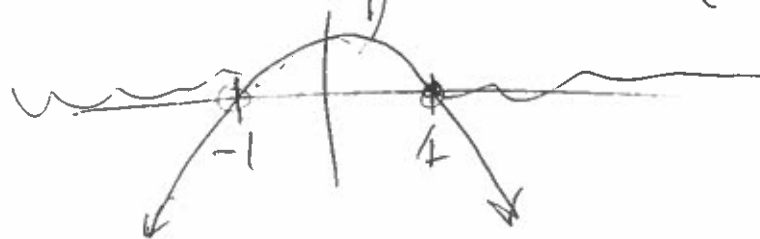


$$y = \log(1 - x^2) \quad \text{Domain}$$

$$1 - x^2 > 0$$

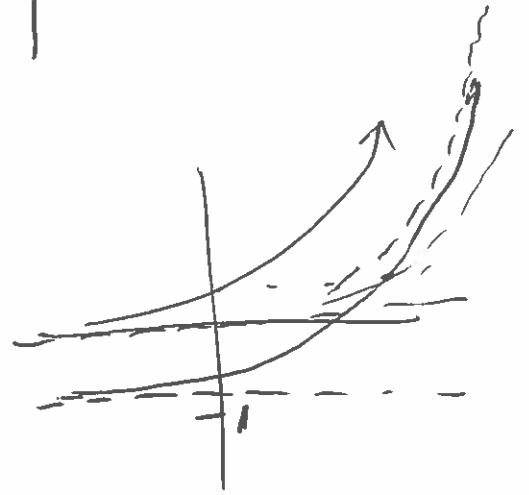
$$-x^2 + 1$$

$(-1, 1)$



$$y = +2e^{x-3} - 1$$

Parent: e^x



①. Right ~~3~~

②. Stretch by 2

③. Down 1

$$y = \sqrt{x+1} + 2$$

