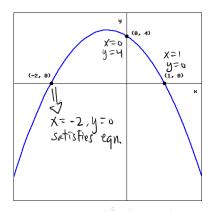
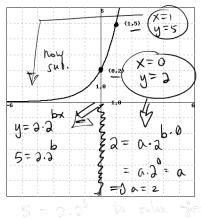


h(t) = 80t -16t2 4,1,9(0)



$$d_{2}(0, 1) \rightarrow 1 = -3.0 - 2.0 + 4$$

$$(-2, 0) \rightarrow 0 = -2(-2)^{2} + 2(-2) + 4$$



$$\frac{\ln(5)}{\ln(1)} = \ln(3.3)$$



Height of local = y

x = distance of ball from thrower.

$$y = -\frac{1}{16}x^{2} + 2x + 3$$

$$= -\frac{1}{16}(x^{2} - 32x) + 19$$

k=19 = max ht.

(h,k) where 2 y=a(x-h)+k

$$y = -\frac{1}{16}x^2 + 2x + 3$$

to ful for the form

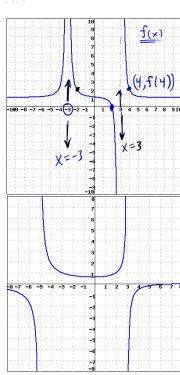
$$0 = \frac{1}{16}x^{2} + 2x + 3$$

$$1 = \frac{1}{16}x^{2} + 2x + 3$$

$$\frac{1}{16}x^{2} + \frac{1}{16}x^{2} + \frac{$$

$$0 = x^2 - 32x - 48$$

$$2a = 3$$



- (a) f(a) = 6
- (1) f(-2) = a
- (6) Vertical asupsystates
 (1) ins., to people x=3 x=3
 approxise but
 souther touch)
- (d) 9-1,

y = 6

$$\log_{3} \left(\frac{1}{3}\right) = \chi \qquad = 3 \qquad \log_{3} 3 = -3$$

$$\log_{3} 3^{-2}$$

$$\log_{3} 3^{-2}$$

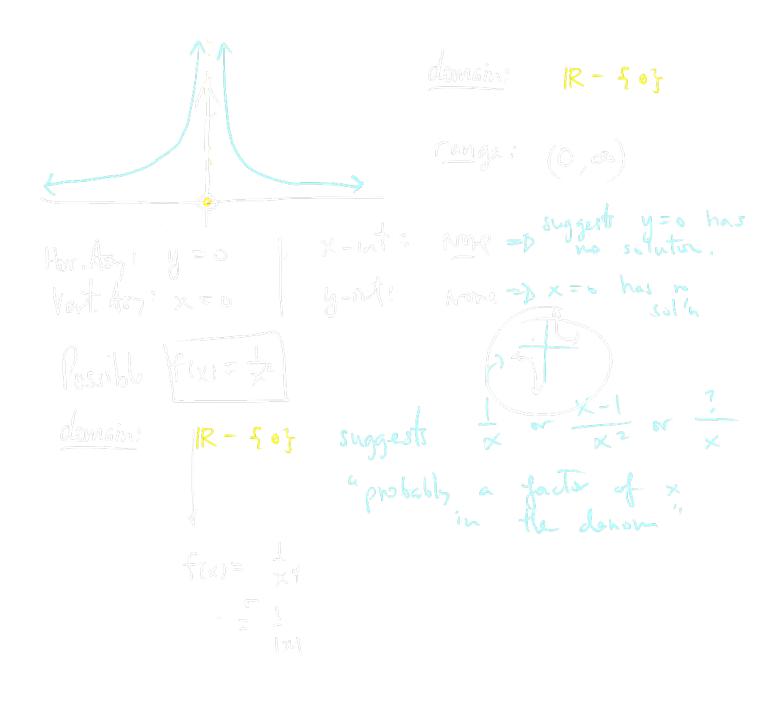
$$\log (1) = \log (\frac{1}{10}) = \log_{10} 10^{-1} = -1$$



log x = INVERSE OF 10"



 $\begin{cases} \text{Vertex} = (h,k) \\ f(x) = a(x-h)^2 + k \end{cases}$ y=a y=avertex: (0, 36) -36= 2



range (4,00)

Jog (. 00159) = 4 means 729 = ,00159 In (729) = In (.60154) h = <u>Alley</u>

10		
-10 -5 0 5 10 -5	Domain: Horizontal Asy: x-Intercepts Possible f(x):	Vertical Asy: y-Intercepts
-10 -5 0 6 10 -10 -5 -5 -5 -70	Possible f(x): Domain: Horizontal Asy: x-Intercepts Possible f(x):	Range:
-10 -5 0 6 10 -510	Domain: Horizontal Asy: x-Intercepts Possible f(x):	•
-10 -5 0 5 10	Domain: Horizontal Asy: x-Intercepts Possible f(x):	Range: Vertical Asy: y-Intercepts

GRAPHS

 $0 y = \frac{x^{2}}{y=0} - \frac{3}{2} \times \frac{4}{1}$ $0 y = \frac{x^{2}}{y=0} - \frac{3}{2} \times \frac{4}{1}$ $0 y = \frac{x^{2}}{y=0} - \frac{3}{2} \times \frac{4}{1}$

leading Term

(=)x6

-×4

degree x leading wef >0

odd degree leading wef <0 y=xb
even
degree, coef >0

A 4