

$$x=0 \rightarrow 1 - \log_c^{-b} = r \Rightarrow \log_c^{-b} = -1 \quad (1)$$

$$b+c = -\frac{r}{c} \quad -b = \frac{1}{c} \Rightarrow bc = -1$$

$$c = -\frac{r}{c} - b \Rightarrow b(\frac{r}{c} + b) = 1$$

$$b^2 + \frac{r}{c}b - 1 = 0 \Rightarrow rb^2 + rb - r = 0$$

$$b^2 + rb - r = 0 \Rightarrow b = \frac{1}{r} \rightarrow \text{جيب}$$

$$b = -r \checkmark$$

$$c = \frac{1}{r}$$

$$x = -1, d \rightarrow 1 - \log_c^{-1/a+b+r} = 0$$

$$-\frac{r}{c}a + r = \frac{1}{r} \Rightarrow -\frac{r}{c}a = -\frac{r}{c} \Rightarrow a = 1$$

$$(1 + \frac{1}{r}) - r = -r \leftarrow \text{جيب}$$

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$$x=1 \rightarrow 1 + c x^r = 0 \quad a+b$$

$$c x^r = -1$$

$$x=1 \rightarrow 1 + c x^r = 0 \quad a = \frac{r}{c}$$

$$\frac{c x^{ar+b}}{c x^{ra}} = \frac{-1}{-\frac{1}{r}} \quad (2)$$

$$r^{ar+b-b} = r^r \Rightarrow r^b = r^r \Rightarrow b = 1 \quad \text{جيب}$$

$$1 + c x^{a-b} = 0 \Rightarrow \frac{c x^{ra}}{r^b} = \frac{-1}{r} = \frac{-1}{a}$$

$$1 - \frac{1}{a} = \frac{r}{a}$$

$$x \rightarrow C + \log \frac{b}{a} = y$$

(1)

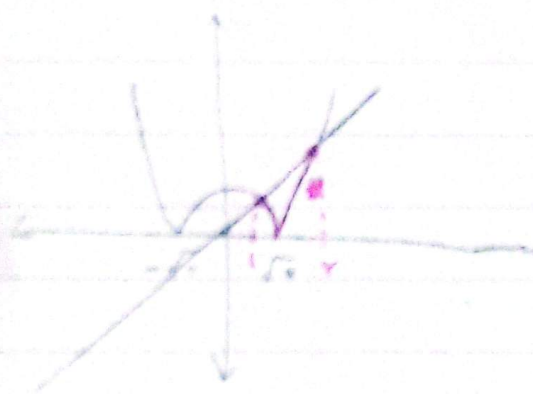
$$x \rightarrow C + \log \frac{y \cdot a + b}{a} = y$$

$$\log \frac{b}{y \cdot a + b} = y$$

$$\frac{b}{y \cdot a + b} = 10^y \Rightarrow b = 10^y (y \cdot a + b)$$

$$-y \cdot a = 10^y - 1$$

$$\frac{-1}{10} = \frac{0}{b} = \frac{10^y}{10^y}$$



$$|y^2 - y| > 20$$

$$\Rightarrow |R| = *$$

(2)

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

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

$$(x-2)(x+1) = 0$$

$$x^2 - 2 = 0$$

$$x = 2$$

$$x^2 + x - 2 = 0$$

$$x = 1$$

$$R = [1, 2]$$

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

Fig 1. Fig 2

(3)

$$x^2 + 2x + 1 = 0 \Rightarrow (x+1)^2 = 0 \Rightarrow x = -1$$

$$x^2 + 2x + 1 = 0 \Rightarrow (x+1)^2 = 0 \Rightarrow x = -1$$

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(4)

$$x^2 + 2x + 1 = 0 \Rightarrow (x+1)^2 = 0 \Rightarrow x = -1$$

Result

$$\log \frac{b}{y \cdot a + b} = y$$

$$\frac{v}{r} (r^t - 1) = r^t - 1$$

DATE

SUBJECT

$$1 = \frac{1}{r} \frac{\Delta v}{\Delta t}$$

$$\left(\frac{1}{r}\right)^t = \frac{1}{v}$$

$$r^t \times v^{-1} = r^{-1} \times r^{-1}$$

$$r^t + 1 \log r = r^t - 1$$

$$\log r = \frac{\log v}{\log r} = \frac{\frac{1}{v}}{\frac{1}{r}} = \frac{r}{v}$$

$$\left(\frac{v}{r}\right)^t = \frac{1}{v}$$

$$v^t \times r^{-t} = v^{-1-t}$$

$$r^t = v^{t+1} \quad t \log r = t + 1$$

$$\frac{\log r}{\log v} = \frac{\frac{1}{v}}{\frac{1}{r}} = \frac{r}{v} = \log v$$

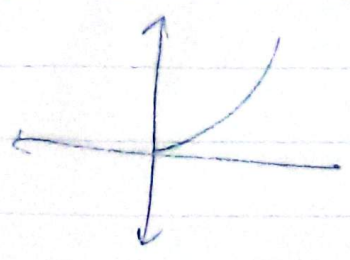
$$\frac{1}{r} t = t + 1 \Rightarrow \frac{1}{r} = 1 + \frac{1}{t} \Rightarrow t = r$$

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الف  $a^{\log_r x} = x^{\log_r a}$   $x^{\log_r a} = x^r$  (19)



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$\therefore y = \log x^r = r \log x$

