بسم رب الشهدا

Date: ستایش عراقی زاده Subject:

(۲۵)

(۱)

$x = 0.5 \Rightarrow 1 - \log_c^{-b} = 2 \Rightarrow \log_c^{-b} = -1$ → $b < 0$

$b + c = -\frac{3}{2}$ $\quad -b = \frac{1}{c} \Rightarrow bc = -1$

$c = -\frac{3}{2} - b \Rightarrow b(\frac{3}{2} + b) = 1$

$b^2 + \frac{3}{2}b - 1 = 0 \Rightarrow 2b^2 + 3b - 2 = 0$

$b^2 + 2b - 4 = 0$ → $b = \frac{1}{2}$ غ ق ق

→ $b = -2$ ✓

$c = \frac{1}{2}$

$x = -1.5 \rightarrow 1 - \log_{\frac{1}{2}}^{-1.5a + 2} = 0$

$-\frac{3}{2}a + 2 = \frac{1}{2} \Rightarrow -\frac{3}{2}a = -\frac{3}{2} \Rightarrow a = 1$

$(1 + \frac{1}{2}) - 2 = -3$ ⟸ جواب

(۲)

$x = 1 \rightarrow 1 + c \times 3^{a+b} = 0$, $c \times 3^{a+b} = -1$

$x = \ldots \rightarrow 1 + c \times 3^a = \frac{2}{3}$, $c \times 3^a = -\frac{1}{3}$

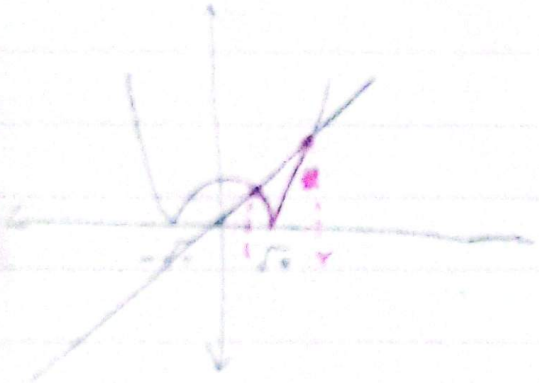
$\frac{c \times 3^{a+b}}{c \times 3^a} = \frac{-1}{-\frac{1}{3}} =$

$3^{a+b-a} = +3 \Rightarrow 3^b = 3 \Rightarrow b = 1$

$1 + c \times 3^{a-b} = ?$ $\quad \frac{c \times 3^a}{3^b} = \frac{-\frac{1}{3}}{3} = -\frac{1}{9}$

$1 - \frac{1}{9} = \frac{8}{9}$

MAHAN



الف) $a^{\log_{\frac{1}{2}} x} = x^{\log_{\frac{1}{2}} a}$

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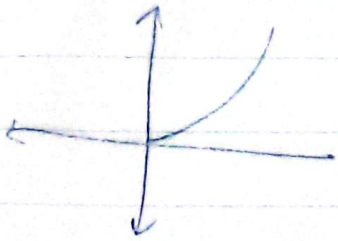

ب) $y = \log x^2 = 2\log x$