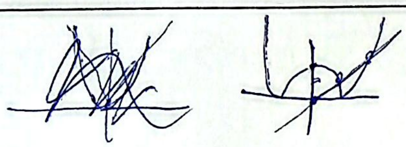
نام و نام خانوادگی ...[illegible]... پاسخنامه تشریحی تکلیف شماره ...۲۵... کلاس ...یازدهم تجربی ۸...

۲۰

۱	(۲)	$(-1.5, 0) \Rightarrow c = -1.5a - b \Rightarrow b + c = -1.5a = -\frac{3}{2} \Rightarrow a = 1$ ✓ $1 - \log_c^{-b} = 2 \quad \frac{1}{c} = -b \quad cb = -1 \quad c = \frac{1}{2}, b = -2$ ✓ $(\frac{1}{2}+1) - 2 = -3$ ✓
۲	(۲)	$\frac{2}{3} = 1 + c \times 3^{a} \quad c = -1 \quad a = -1$ $1 + c \times 3^{a} \times 3^{b} = 0 \Rightarrow b = 1 \Rightarrow 1 - 3^{x-1} = 1 - \frac{1}{9} = \frac{8}{9}$ ✓
۳	(۲)	$c + \log_5^{b} = 2 \quad c + \log_5^{2.4a+b} = 0 \Rightarrow -c = 2.4a + b$ $5^{2-c} = b \Rightarrow 25 \times 5^{-c} = b \quad 5^{-c} = \frac{b}{25} \quad \frac{b}{25} = 2.4a + b$ $\Rightarrow \frac{-24b}{25} = \frac{24}{10}a \quad \frac{a}{b} = -\frac{2}{5}$ ✓
۴	(۲)	$\lvert x^2 - 2 \rvert - x > 0$  $x^2 - 2 = x, x = 2$; $x^2 - 2 = -x, x = 1$ $\Rightarrow x \in (-\infty, 1) \cup (2, +\infty)$ ✓
۵	(۲)	$(1, 4), (-1, 10) \quad 2 + 2^{b-a} = 4 \quad 2 + 2^{b+a} = 10$ $b - a = 1, b + a = 3 \quad b = 2, a = 1$ ✓ $\quad 2 \times 2 - 1 = 3$ ✓

۶ (۲)

$(1,0)\ (2,2)$ $\quad -2+(\frac{1}{2})^{A+B}=0$ $\quad A+B=-1$, $2A+B=-2$ $\Rightarrow A=-1,\ B=0$

$-2+(\frac{1}{2})^{2A+B}=2 \Rightarrow$

$-2+(\frac{1}{2})^{-x}=-2+8=6$ ✓

۷ (۲)

$\frac{1}{6}=(\frac{8}{9})^{t}\times 1$ $\quad \log_5^{3}=\frac{19}{24}=\frac{5}{12}$ $\quad \log_5^{2}=\frac{5}{7}$

$\Rightarrow 6=(\frac{9}{8})^{t} = \log_5^{6}=t\times\log_5^{\frac{9}{8}}=(\log_5^{3}+\log_5^{2})=t\times(2\log_5^{3}-3\log_5^{2})$

$t=\frac{19}{3}$ سال $\times$ $\frac{19}{3}\times\frac{60}{1}=380$ ✓

۸ (۲)

$1\times(\frac{7}{8})^{\frac{t}{7}}=\frac{1}{7} \Rightarrow \log_3^{7}=\frac{10}{6}=\frac{5}{3}$ $\quad \log_3^{2}=\frac{10}{16}=\frac{5}{8}$

$(\frac{8}{7})^{\frac{t}{7}}=7 \Rightarrow \frac{t}{7}\times\log_3^{\frac{8}{7}}=\log_3^{7} \Rightarrow \frac{t}{7}(3\log_3^{2}-\log_3^{7})=\log_3^{7}$

$\frac{t}{7}\times(\frac{15}{8}-\frac{5}{3})=\frac{5}{3}$ $\quad t=56$ ✓

۹ (۲)

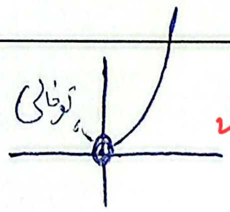
$(\frac{96}{100})^{t}\times 1=\frac{1}{3} \Rightarrow (\frac{24}{25})^{t}=\frac{1}{3}$ $\quad (\frac{25}{24})^{t}=3$

$t\times\log\frac{25}{24}=\log 3 \Rightarrow t\times(2\log 5-3\log 2-\log 3)=\log 3$

$\Rightarrow t=24$ ✓

۱۰ (۲)

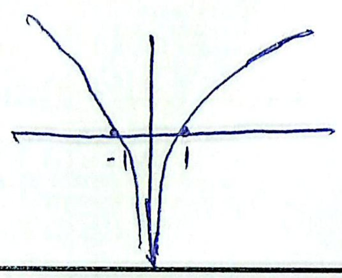
الف) $9^{\log_3^{x}} \Rightarrow x>0 \Rightarrow x^{\log_3^{9}}=x^{2}$



✓

ب) $y=\log x^{2} \Rightarrow x\neq 0 \Rightarrow$

$=2\log x$ وقتی x مثبت باشد



✓

محمدتقی [illegible]