Subject: آرین نصیری Date:

$x=-1 \Rightarrow a-b+c=9 \quad x=3 \Rightarrow 9a+3b+c=1 \quad \frac{-b}{2a}=-1 \Rightarrow b=2a$ -۱

$8a+8a=-8 \Rightarrow a=\frac{-1}{2}, b=-1 \Rightarrow a-b+c=9$

$\Rightarrow -\frac{1}{2}+1+c=9 \Rightarrow c=\frac{17}{2} \Rightarrow -\frac{x^2}{2}-x+\frac{17}{2}=0$

$\Delta>0 \Rightarrow m^2-4(2)(m+6)>0 \Rightarrow m^2-8m-48>0$ -۲

$\Rightarrow (m-12)(m+4)>0 \Rightarrow$ -4, 12: $+ \; - \; +$ $(-\infty,-4)\cup(12,+\infty)$

$\alpha+\beta=\frac{1}{\alpha\times\beta} \Rightarrow \frac{-b}{a}=\frac{1}{\frac{c}{a}} \Rightarrow \frac{-b}{a}=\frac{a}{c}$ -۳

$\Rightarrow \frac{-2m+1}{\circ}=\frac{2}{2-m}=2m^2-5m+2=9 \Rightarrow 2m^2-5m-7=0$

$\Rightarrow m^2-5m-14=0 \Rightarrow (m-7)(m+2)$ → $m=2,5$ ✓ → $m=-1$ ✗

$x_1+x_2=1, x_1x_2=-4 \quad x_1^3+\frac{1}{x_2}=A \quad x_2^3+\frac{1}{x_1}=B$ -۴

$\Rightarrow A+B=\frac{1}{x_2}+\frac{1}{x_1}+x_2^3+x_1^3=\frac{x_2+x_1}{x_2x_1}-(x_1^3+x_2^3)=13-\frac{1}{4}$

$=\frac{51}{4} \Rightarrow AB=(\frac{1}{x_2}+x_1^3)(\frac{1}{x_1}+x_2^3)=x_1^3x_2^3=-64$

$\Rightarrow x_1^2+x_2^2=(x_1+x_2)^2-2x_1x_2=1-(-8)=9 \Rightarrow AB=\frac{1}{4}-9-64=-\frac{291}{4}$

$\Rightarrow -4x^2+51x+291$

$\frac{(\sqrt[3]{x^2}+\sqrt[3]{x^2}+1)(\sqrt[3]{x^2}-1)}{\sqrt[3]{x^2}}=2\sqrt[3]{x} \Rightarrow x^2-1-2x=4$ -۵

$x^2-2x-1=0$

$\Rightarrow S=\frac{-b}{a}=\frac{-(-2)}{1}=2$

$P=\alpha\beta=\alpha\times2\alpha=\frac{4}{3} \Rightarrow \alpha=\pm\frac{2}{3}$ -۶

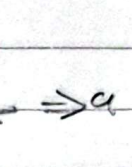
$S=\alpha+2\alpha \Rightarrow 3\alpha=\frac{a}{3} \Rightarrow \pm\frac{8}{3}=\frac{a}{3} \Rightarrow 8=\pm 8$

$\Rightarrow$ تفاضل $=16$

s.a.m

Subject: Date:

۷- $c=0 \Rightarrow$ ضابطه $\Rightarrow$  $a>0$

$\Rightarrow \frac{-b}{a} \geq 0 \Rightarrow \frac{-3-2a}{2a} \geq 0 \Rightarrow$  $\Rightarrow a$

$a \in [-\frac{3}{2}, 0)$

۸- $\frac{-b}{2a} \Rightarrow \frac{-a}{2} = \frac{2}{-2} \Rightarrow a=2$

برابر $\Delta \Rightarrow 4+8 = 4-4(-1)(b) \Rightarrow 12 = 4+4b \Rightarrow b=0$

$a \times b = 2 \times 2 = 4$

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

$\frac{-2}{2a} = \frac{-4}{2} = -3 \Rightarrow \frac{b}{2} = -3 \Rightarrow b = -6$

$\frac{ab}{4} = \frac{-6}{4}\left[\frac{-6}{4}\right] = -2$

۱۰- $x, y = x^2 + 4x + m$

$k, y = x^2 + 2x - 2m$

$\left.\begin{matrix} s_A = -b+7 \\ s_B = k+b \end{matrix}\right\} \Rightarrow s_A - s_B = 7-k$

$s_A = -6, s_B = -1 \} 7-k = -2-(-6) = +4$