

بسم خدا  
ایران صبا یان کیف! <sup>۲۰</sup> آفرین!

SUBJECT:

Year: Month: Day:

$$\frac{-b}{2a} = \frac{-1}{2 \times -2} = \frac{1}{4} \rightarrow a = \frac{3}{4} \rightarrow -\frac{1}{4}x^2 + x + \frac{3}{4} = 0 \rightarrow x^2 - 4x - 3 = (x-4)(x+1) = 0$$

✓  $x=4$  ✓  $x=-1$

۱)  $m < 0$  با توجه به جدول

$$\Delta > 0 \rightarrow 2\omega - fm^2 > 0 \rightarrow -1.4m < 2.1\omega \Rightarrow \omega > -\frac{1.4}{2.1}m \Rightarrow \omega > -\frac{2}{3}m$$

$$-b=2 \rightarrow b=-2 \quad 2a=3 \rightarrow a=\frac{3}{2} \quad b^2 - 4ac = 0 \rightarrow f = 4c \rightarrow c = \frac{f}{4}$$

$$\frac{3}{2}x^2 - 3x + \frac{f}{4} \xrightarrow{\text{ضرب در ۴}} 9x^2 - 12x + f$$

$$2(a^2 + b^2) + (a^2 - b^2) = 2(S^2 - 2P) + 5\left(\frac{\sqrt{\Delta}}{2a}\right)^2 = 2 \times 1 - 2m - f\sqrt{1 - 2m} = 12$$

$$\div 2 \rightarrow 1 - m = \sqrt{1 - 2m} \rightarrow m^2 - 4m + 4f = f - 1 - m \rightarrow m^2 - 4m + 1 + f = 0 \rightarrow m = f$$

$$\frac{-b}{2a} = \frac{1}{2} \rightarrow -b = fa / C = \omega / \frac{fac - b^2}{fa} = 9 \rightarrow \frac{2a - 1/4a^2}{fa} = 9 \rightarrow a^2 + a = 0$$

$a=0$  یا  $a=-1$

$$\rightarrow b = f \rightarrow -x^2 + fx + \omega \rightarrow \frac{-1 \pm \omega}{-1 \pm 1} \rightarrow (-1 \pm \omega)$$

$$a + B = \frac{1}{a} \text{ و } a.B = \frac{9}{a} \rightarrow a = \pm 3$$

$$\begin{cases} a=3 \rightarrow 3+B = \frac{1}{3} \rightarrow B = -\frac{8}{3} \\ a=-3 \rightarrow -3+B = -\frac{1}{3} \rightarrow B = \frac{8}{3} \end{cases}$$

$$\frac{1}{a} + \frac{1}{B} = -\frac{1}{3} + \frac{3}{2} = \frac{5}{6}$$

$$a^2 = -m + 2m \rightarrow -m(a+B) + 2m = 1 \rightarrow m^2 + 2m - 1 = 0$$

$m=1$  یا  $m=-1$

$$\frac{-\Delta}{fa} = \frac{2m^2 + 21m - 14}{4m} = 1 \rightarrow \frac{m^2 + 11m - 1}{2m} = 1 \rightarrow m^2 + 11m - 2 = 0$$

$$-2x^2 + 11x + 4 \div -2 \rightarrow x^2 - \frac{11}{2}x - 2 \rightarrow (x-1)(x+1) \rightarrow x=1 \text{ یا } x=-1$$

$$C = f / \frac{-b}{2a} = 2 \rightarrow -b = fa / \frac{-\Delta}{fa} = 4 \rightarrow \frac{1/4a - 1/4a^2}{fa} = 4 \rightarrow a = -\frac{1}{4} \rightarrow b = 2$$

$$\rightarrow -\frac{1}{4}x^2 + 2x + 2 \quad \frac{1}{a} + \frac{1}{B} = \frac{a+B}{aB} = \frac{f}{-1} = -f$$

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$$\rightarrow f = \lambda a + \mu a^2 + \gamma a + \tau = 0 \rightarrow \mu a^2 - \tau a + 1 = 0 \rightarrow a = \frac{\tau \pm \sqrt{\tau^2 - 4\mu}}{2\mu}$$

$$a = 1 \rightarrow n^2 - \lambda n + 1 = (n - \tau)(n - \gamma) \rightarrow n = \tau$$

$$a = -\frac{1}{\mu} \rightarrow n^2 - \frac{\lambda}{\mu}n + \frac{\tau}{\mu} = (n - \tau)(n - \frac{\gamma}{\mu}) \rightarrow n = \frac{\gamma}{\mu}$$

$$\Delta > 0 \rightarrow (\tau a + \gamma)^2 - 4(\mu a^2 + \gamma a + \tau) = 1\gamma a^2 + \tau\gamma a + 1\gamma - 4\mu a^2 - 4\tau a - 4\tau$$

$$= \tau a^2 - \lambda a + 1 = (a - 1)^2 \rightarrow a \neq 1$$