

14, 75

کتاب جعفری

سه شنبه



آب

Nov. 2018

ربیع الاول 5

$$(1) \frac{-1}{ka-1} = 1 \Rightarrow -1 = ka-1 \Rightarrow 1=ka$$

$$a = \frac{1}{k}$$

$$-\frac{1}{k} n^2 + n + 1 = 0$$

دقت! ✓

(175)

$$-n^2 + km + 1 = 0 \Rightarrow n = +4, -2$$

$$(2) m < 0, \Delta > 0 \Rightarrow 16 - 4k^2 > 0$$

$$\Rightarrow 16 > 4k^2$$

$$\frac{16}{4} > k^2$$

(175)

$$\Rightarrow \frac{-0}{2k} m < \frac{0}{2} \Rightarrow \left(\frac{-0}{2k}, 0 \right)$$

$$(3) x = \frac{3 \pm \sqrt{5}}{2} \Rightarrow (km = 3 \pm \sqrt{5})$$

0

$$\Rightarrow (km - 3 = \sqrt{5})^2 \Rightarrow km^2 - 12m + 9 = 0$$

$$\Rightarrow km^2 - 12m + 9 = 0$$

$$(4) 2(\alpha^2 + \beta^2) + (\alpha^2 - \beta^2) \Rightarrow 2(s^2 - 2p) + (s)(\sqrt{s^2 - 4p})$$

$$\Rightarrow 2(17 - 2p) + 2(\sqrt{17 - 4p}) = 12$$

(2)

$$\Rightarrow 2(17 - 2p) + 2\sqrt{17 - 4p} = 12$$

$$17 - 2p + \sqrt{17 - 4p} = 6 \Rightarrow -2p + \sqrt{17 - 4p} = -11$$

$$\Rightarrow (\sqrt{17 - 4p} = 2p - 11)^2$$

$$\Rightarrow 17 - 4p = 4p^2 - 44p + 121 \Rightarrow 4p^2 - 40p + 104 = 0$$

$$= (p - 13)^2 = 0 \Rightarrow p = 13 \Rightarrow \frac{m+1}{2} = 13$$

$$m = 25$$

$$(5) a(n-1)^2 + 9 = an^2 - kan + ka + 9$$

$$ka + 9 = 9 \Rightarrow ka = -k \Rightarrow a = -1$$

(2)

$$\Rightarrow n^2 + kn + 9$$

$$\Rightarrow \begin{array}{c|c|c} 1 & 0 & 9 \\ \hline - & + & - \end{array} \Rightarrow (-1, 9)$$

4

$$P = \frac{qB}{\alpha} = \alpha B \xrightarrow{B \neq 0} \frac{q}{\alpha} = \alpha \Rightarrow \alpha = \pm 1$$

$$\alpha B^2 - vB + qB = 0 \Rightarrow \alpha B^2 + 1B = 0$$

$$\Rightarrow B(\alpha B + 1) = 0 \Rightarrow \alpha B + 1 = 0 \Rightarrow \alpha B = -1$$

$$\Rightarrow \alpha B + 1 = 0 \Rightarrow \alpha B = -1 \Rightarrow \alpha = -1 \Rightarrow B = \frac{1}{\alpha}$$

$$\frac{-1}{1} + \frac{1}{1} = \frac{-1+1}{1} = 0 \checkmark$$

2

5

$$B^2 + mB - 2m = 0 \Rightarrow B^2 - 2m = -mB \quad P = \frac{-2m}{1} = -2m$$

$$\alpha^2 + B^2 - 2m = 5^2 - 4P + P = 5^2 - P = 1$$

$$\Rightarrow m^2 + 2m = 1 \Rightarrow m^2 + 2m - 1 = 0 \quad m = -1, 2$$

$$-1 \rightarrow \Delta < 0 \Rightarrow \text{مغلق} \quad m = 2 \rightarrow S = -m = -2$$

$$\frac{-1}{2m} = \frac{-1}{m} \Rightarrow m \times \frac{1}{m^2} + 1 \times \frac{-1}{m} + \frac{m}{1} + 1$$

$$= \frac{1}{m} + \frac{-1}{m} + \frac{m}{1} + 1 = 1 \Rightarrow \frac{-1}{m} + \frac{m}{1} = 1$$

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

$$m \neq 0 \Rightarrow m = 2 \Rightarrow -1m^2 + 1m + 2 = f(m) \Rightarrow m = -1, 2 \quad K = 2 \checkmark$$

$$a(n-1)^2 + 1 = an^2 - Kan + Ka + 1 = 1$$

$$Ka + 1 = 1 \Rightarrow a = \frac{1}{K} \Rightarrow \frac{1}{K}n^2 + Kn + K = 1$$

$$\frac{1}{\alpha} + \frac{1}{\beta} = \frac{\beta + \alpha}{\alpha\beta} = \frac{5}{P} = \frac{K}{-1} = -\frac{1}{K} \checkmark$$

1, 1, 5

سوال جمع ریٹے هارو
مرضواد!

2

2

$$S = 2 \quad P = \frac{4}{9}$$

سوال لغتہ باضرایب صحیح!

$$n^2 - Sn + P = 0 \rightarrow n^2 - 2n + \frac{4}{9} = 0 \rightarrow 4n^2 - 18n + 4 = 0$$

سویان جعفری

$$(10) \quad 1 - na - 1 + 3a^2 + 4a + 3 = 0 \quad (1, 5)$$

$$\Rightarrow 3a^2 - 1a + 3 = 0 \Rightarrow a = 1, -\frac{1}{3} \quad \text{اینگ دیرتہ!}$$

$$\boxed{a=1} \Rightarrow 3x^2 - 1x + 1 = 0 \Rightarrow x = 2, 6 \quad \checkmark$$

$$a = -\frac{1}{3} \rightarrow 3n^2 - 1n + 3 = 0 \quad \begin{cases} n = 2 \\ n = \frac{2}{3} \end{cases}$$

سنبه

سان

14

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