

نام و نام خانوادگی (نام و نام خانوادگی) پاسخنامه تشریحی تکلیف شماره کلاس ایندهم دبیرستان B.....

الف) $4n^2 - 5n - 6 = 0$ $n^2 - 5n - 34 = 0$ $(n+8)(n-9) = 0$ $4 \div 4 \rightarrow \frac{4}{4} = \frac{-5}{4} = \frac{-2}{3}$ $9 \div 9 \rightarrow \frac{9}{9} = \frac{3}{2}$	ب) $3n^2 - 11n - 3 = 0$ $n^2 - 11n - 9 = 0$ $(n-9)(n+1) = 0$ $9 \div 9 \rightarrow \frac{9}{9} = \frac{3}{3}$ $-1 \div 9 \rightarrow \frac{-1}{9} = \frac{-1}{9}$	ج) $5n^2 - 8n - 12 = 0$ $n^2 - 8n - 12 = 0$ $(n-4)(n+1) = 0$ $4 \div 4 \rightarrow \frac{4}{4} = \frac{-8}{4} = \frac{-2}{1}$ $-12 \div 4 \rightarrow \frac{-12}{4} = \frac{-3}{1}$	د) $2n^2 - 5n - 12 = 0$ $n^2 - 5n - 12 = 0$ $(n-1)(n+3) = 0$ $1 \div 1 \rightarrow \frac{1}{1} = \frac{-5}{1} = \frac{-2}{1}$ $-12 \div 1 \rightarrow \frac{-12}{1} = \frac{-3}{1}$
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الف) $n^2 - 5n - 12 = 0$ $(n-7)(n+2) = 0$ $7 \div 7 \rightarrow \frac{7}{7} = \frac{-5}{7} = \frac{-2}{1}$	ب) $2n^2 + 5n + 3 = 0$ $n^2 + 5n + 4 = 0$ $(n+2)(n+3) = 0$ $-2 \div 2 \rightarrow \frac{-2}{2} = \frac{-1}{1}$ $-3 \div 2 \rightarrow \frac{-3}{2} = \frac{-3}{2}$	ج) $n^2 + 2n + 3 = 0$ $\Delta = b^2 - 4ac =$ $4 - 4(1)(3) =$ -8 ریشه ندارد.	د) $3n^2 + 3n - 2 = 0$ $\Delta = b^2 - 4ac =$ $9 - 4(3)(-2) = 33$ $n = \frac{-b \pm \sqrt{\Delta}}{2a}$ $n = \frac{-3 \pm \sqrt{33}}{6}$ $n = \frac{-3 + \sqrt{33}}{6}$ $n = \frac{-3 - \sqrt{33}}{6}$
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$$A \times B = \{(1,2)(1,3)(2,2)(2,3)(3,2)(3,3)\}$$

$$B^T = B \times B = \{(2,2)(2,3)(3,2)(3,3)\}$$

$$A \times B - B^T = \{(1,2)(1,3)(2,2)(2,3)(3,2)(3,3)\} - \{(2,2)(2,3)(3,2)(3,3)\} = \{(1,2)(1,3)\} \leftarrow \text{حاصل}$$

الف) $\Rightarrow m^2 = m + 2$
 $m^2 - m - 2 = 0$
 $(m-2)(m+1) = 0$
 $m = -1 \rightarrow \checkmark$
 $m = 2 \times \rightarrow (2,1)(2,4) \times$

ب) $\rightarrow m^2 = m + 2$
 $m^2 - m - 2 = 0$
 $(m-2)(m+1) = 0$
 $m = 2 \rightarrow (2,4)(2,1) \times$
 $m = -1 \rightarrow (-1,4)(-1,3) \times$

مجموعه مدبر از m مجموع تابع نمی شود. $m = -1 \rightarrow \{(3,1)(2,1)(-3,-1)(-2,-1)(3,1)(-1,4)\}$

$a^2 = 3a - 2$
 $a^2 - 3a + 2 = 0$
 $(a-2)(a-1) = 0$
 $a = 2 \rightarrow \{(1,4)(1,4)(4,14)\} \checkmark$
 $a = 1 \rightarrow \{(1,1)(1,1)(1,4)\} \times$

$$\begin{aligned} n=1 &\rightarrow \varepsilon = a+b \\ n=2 &\rightarrow \varepsilon = 2a+b \end{aligned} \left. \vphantom{\begin{aligned} n=1 &\rightarrow \varepsilon = a+b \\ n=2 &\rightarrow \varepsilon = 2a+b \end{aligned}} \right\} \varepsilon = a$$

$$\hookrightarrow b = -\varepsilon$$

$$a \times b = \varepsilon(-\varepsilon) = \boxed{-14}$$

جواب

$$n=K \rightarrow 2K-3 = \varepsilon - 3K$$

$$\begin{aligned} \omega K &= V \\ K &= \frac{V}{\omega} \end{aligned}$$

جواب

الف $\rightarrow n=6$

$$y^3 - 4y = 1 - \varepsilon + 3$$

$$y(y^2 - 4) = 0$$

$$\hookrightarrow y = 0$$

$$y^2 - 4 = 0 \rightarrow y^2 = 4$$

$$y = \pm \sqrt{4} \text{ تابع نیست}$$

ب $\rightarrow n=0$

$$|y| = 3$$

$$y < +3$$

$$y < -3$$

$$\text{تابع نیست}$$

ج $\rightarrow$

$$y = \pm \sqrt{1 - \cos n}$$

$$\downarrow$$

$$y \text{ دو واحد مختلف}$$

$$\text{انت بین تابع}$$

$$\text{نیست}$$

د $\rightarrow$ تجزیه $y'' + (n+1)y = 0$

$$y'' = 0 \rightarrow y = 0$$

$$n+1 = 0 \rightarrow n = -1$$

$$\text{در یک نقطه به قرار است}$$

$$\text{بین تابع است}$$

الف) $\sqrt[n]{y_1} + n_1 = 2n_1 - 2$

$$\xrightarrow{n_1 = n_2}$$

$\sqrt[n]{y_2} + n_2 = 2n_2 - 2$

$$\text{بهم برابرند}$$

$$\sqrt[n]{y_1} = \sqrt[n]{y_2} \rightarrow y_1 = y_2 \text{ تابع}$$

الف) $n=0$ $0 \times \sin y = y \times \sin 0$

$$y \text{ در عدد 0 قرار بگیرد درست شود بین تابع نیست}$$