

Subject:

Date:

روز جمعه ۱۹ آبان

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۱۹ آبان

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Mo Tu We Th Fr Sa Su

$$A = \{1, 2, 3\} \quad B = \{1, 2\}$$

$$A \times B = B \rightarrow \{(1, 2), (2, 2), (3, 2)\}$$

$$\{(1, 2), (2, 2)\} \rightarrow \dots$$

(۱)

$$4x^2 - 8x - 4 = 0$$

(۱)

$$x^2 - 2x - 1 = 0 \Rightarrow (x-3)(x+1) = 0$$

$$x = \frac{9}{4} \pm \frac{5}{4} = \frac{14}{4} = \frac{7}{2}$$

$$x^2 - 8x - 4 = 0$$

(۲)

$$x^2 - 8x - 4 = 0 \Rightarrow (x-9)(x+1) = 0$$

$$x = \frac{9}{4} \pm \frac{5}{4} = \frac{14}{4} = \frac{7}{2}$$

$$m^2 = m + 2$$

(۱, ۵)

$$m^2 - m - 2 = 0 \quad a + c = b \quad m = -1, 2$$

$$m = -1$$

$$5x^2 - 8x - 1 = 0$$

(۲)

$$x^2 - 8x - 1 = 0 \Rightarrow (x-9)(x+1) = 0$$

$$x = \frac{9}{4} \pm \frac{5}{4} = \frac{14}{4} = \frac{7}{2}$$

$$m^2 = m + 2 \quad a + c = b$$

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

$$m = 2$$

پاسخ صحیح

$$a^2 - 3a + 2 = 0 \quad a + b + c = 0$$

(۵)

$$a = 2, 1 \rightarrow \dots$$

$$x^2 - 8x - 1 = 0$$

(۱)

$$x^2 - 8x - 1 = 0 \Rightarrow (x-9)(x+1) = 0$$

$$x = \frac{9}{4} \pm \frac{5}{4} = \frac{14}{4} = \frac{7}{2}$$

11

12

13

$$0 = a + b$$

$$1 = 2a + b$$

$$\Rightarrow a = 1$$

$$b = -1$$

(۶)

$$x^2 - 8x - 1 = 0 \quad (x-9)(x+1)$$

$$x = \frac{9}{4} \pm \frac{5}{4} = \frac{14}{4} = \frac{7}{2}$$

14

15

$$2k - 3 = 5 - 3k$$

(۷)

$$5k = 8 \Rightarrow k = \frac{8}{5}$$

$$m^2 + 2m + 1 = 0 \quad a + c = 0$$

$$m = -1$$

16

17

$$x^2 + 2x + 1 = 0 \quad \Delta = 4 - 4 = 0$$

18

19

$$x = 1 \quad y^2 - 4y = 0 \Rightarrow y = 0, 4$$

(۸)

$$x^2 + 2x + 1 = 0$$

20

$$x = 0 \quad y = \pm 2$$

PASARGAD

$$x = \frac{-1 \pm \sqrt{1 + 4}}{2} = \frac{-1 \pm \sqrt{5}}{2}$$

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Mo	Tu	We	Th	Fr	Sa	Su

ب) $y_1^r + y_2^r = \Delta x$ (if $(m_1 = m_2)$)

$y_1^r + y_2^r = \Delta x$ $\Rightarrow y_1^r + y_2^r = y_1^r + y_2^r$

$(y_1 - y_2)(y_1^r + y_2^r + y_1 y_2 + 1)$

$\Delta = y_1^r - \Delta y_2^r = -\Delta y_2^r < 0$

✓ جـ $y_1 = y_2$

ان) $x \sin y = y \sin x \rightarrow x = y = 1R$ (10)

ب) $\sqrt{\frac{x}{y}} + \sqrt{\frac{y}{x}} = 1$ مجموع جذور x و y 2

$\frac{x}{y} = 1 \Rightarrow x = y$ (ن, $y \neq 0$)

ج) $\cos x = -1$ $|y| = \sqrt{2}$

$y = \pm \sqrt{2}$ X

د) $y^r = -(n+1)^r$

$(-1, 0)$ ✓ نصف

ان) $\sqrt{y} = -\frac{m^r + m - 1}{(m_1 - 1)^r}$ (9.5)

$\sqrt{y} = -\frac{m^r + m - 1}{(m_1 - 1)^r}$

if $(m_1 = m_2) \Rightarrow \sqrt{y} = \sqrt{y_1}$

✓ جـ $y_2 = y_1$

ب $\rightarrow$ ستر عدد

ج-۴) $(3, m^2)$ و $(3, m+2) \leadsto m^2 = m+2 \leadsto m^2 - m - 2 = 0$

$m=2 \rightarrow (2, 1)$ و $(2, 4) \times$

$m=-1 \rightarrow (-1, 4) (-1, 1) \times$ به ازای هیچ مقدار m عبارت تانژانت!

ج-۱۰) $\sqrt{\frac{x}{y}} + \sqrt{\frac{y}{x}} = 2$

این عبارت تنها زمانی به قدر است که $1 = \sqrt{\frac{x}{y}}$ باشد پس

$\sqrt{\frac{x}{y}} = 1 \leadsto \frac{x}{y} = 1 \leadsto x = y$ و $(x, y \neq 0)$

