

مبحث حسابی / عربی
سؤال (1)

مع دقتان بنویسید

$$AB = \frac{C}{a} = 2 \Rightarrow a^2 B^2 = 4$$

$$a + B = \frac{b}{a} = \omega$$

$$a^2 + B^2 = a^2 B^2 + B^2 = B^2 (a^2 + 1)$$

$$\frac{B^2 (a^2 + 1)}{a^2} = \frac{a\omega}{a} = 19$$

$$a^2 + B^2 = S^2 - 2SP = 14\omega - 2(2 \times \omega) = 9\omega$$

$$\frac{14 - 11\omega}{2} = \frac{14}{2} (1/2 \times 1/2)$$

سؤال (2)



مختصات

$$| \frac{b}{a} | = \frac{1}{2}$$

$$z = \frac{14}{2} \times \frac{1}{2} = \frac{14}{2}$$

$$\Delta = \frac{\sqrt{b^2 - 4ac}}{a} = \frac{\sqrt{b^2 - 4ac}}{a} = \frac{\sqrt{4k^2 - 4}}{a} = \frac{2\sqrt{k^2 - 1}}{a} \Rightarrow |k^2 - 1| = \frac{14}{9} k^2$$

$$|k^2 - 1| = \frac{14}{9} k^2 \Rightarrow \frac{14 - 14}{9} k^2 = 0 \Rightarrow \frac{14}{9} k^2 = 0 \Rightarrow k^2 = 0 \Rightarrow k = 0$$

$$\left[\frac{k}{2} \right] = \left[\frac{0}{2} \right] = \left[0 \right] = 0$$

سؤال (3)

$$A(x, y) \quad B(-\omega, y) \xrightarrow{\text{فصل}} \frac{y - \omega}{2} = -\frac{1}{2} \Rightarrow y = -1$$

$$a^2 + B^2 = S^2 - 2SP = (c - r)^2 - 2P = 4 - 2P = \omega \Rightarrow P = \frac{3}{2}$$

$$y = a(x+1)^2 + 1 \Rightarrow y = a(x^2 + 2x + 1) + 1 \Rightarrow y = ax^2 + 2ax + a + 1$$

$$S = \frac{b}{a} = \frac{-10}{a} = -2 \Rightarrow P = \frac{c}{a} = \frac{a+1}{a} = \frac{-1}{2} \Rightarrow a + 2 = -a \Rightarrow 4a = -2 \Rightarrow a = -\frac{1}{2}$$

$$y = -\frac{1}{2}(x+1)^2 + 1 \Rightarrow y = -\frac{1}{2}x^2 - \frac{1}{2}x - \frac{1}{2} + 1 \Rightarrow y = -\frac{1}{2}x^2 - \frac{1}{2}x + \frac{1}{2}$$

سؤال (4)

$$\sqrt{b^2 - 4ac} > 0 \Rightarrow b^2 - 4ac > 0 \Rightarrow 16\omega + 4m > 0 \Rightarrow m > -4\omega$$

مختصات

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-\omega \pm \sqrt{16\omega + 4m}}{-2}$$

$$\frac{-\omega + \sqrt{16\omega + 4m}}{-2} < 4 \Rightarrow \sqrt{16\omega + 4m} > -8 - \omega$$

$$\sqrt{16\omega + 4m} < 4 \Rightarrow 16\omega + 4m < 16 \Rightarrow m < -4\omega$$

$$-4\omega < m < -4\omega \Rightarrow m = -4\omega$$

DATA:

NUMBER:

$$\frac{-A}{F_a} = P \Rightarrow \frac{-b^2 + \varepsilon a c}{F_a} = P \Rightarrow \frac{-12F + P \cdot m^2 - F_m}{F_m} = P \quad (4 \text{ سوال})$$

$$\frac{P \cdot m^2 - F_m - 12F}{F_m} = P \Rightarrow \frac{P \cdot m^2 - m - 12}{m} = P$$

5 $P \cdot m^2 - m - 12 = P \cdot m \Rightarrow P \cdot m^2 - P \cdot m - m - 12 = 0$

$$m^2 - P \cdot m - 12 = 0 \Rightarrow (m - 12)(m + 1P) = 0 \quad \begin{cases} m = 12 \\ m = -1P = -12 \end{cases}$$

$$P \cdot m^2 - 12F = 12 \Rightarrow -12 = \frac{12}{P} \Rightarrow P = -1$$

10 $P(A) - 12(P) - 12 = 0 \Rightarrow P = 1$

$$P \cdot a^2 = P$$

$$\frac{P \cdot a^2}{a} = \frac{P \cdot a - 1}{1} = P \cdot a - 1 \Rightarrow P \cdot a - 1 = P$$

15 $P \cdot a^2 - P \cdot a - 1 = 0 \Rightarrow (a - 1)^2 = 0 \Rightarrow a = 1$

$$P \cdot a^2 + P \cdot a + 1 = 0$$

$$P \cdot a^2 - P \cdot a - 12 = 0 \Rightarrow P \cdot a^2 - P \cdot a - 12 = 0$$

$$P \cdot a^2 + P \cdot a - 12 = 0 \Rightarrow P \cdot a^2 + P \cdot a - 12 = 0$$

20 $P \cdot a^2 - 12F = 12 \Rightarrow P \cdot a^2 - 12F = 12 \Rightarrow \sqrt{12} = \sqrt{12}$

$$t = m^2 - \frac{b^2 + \sqrt{12}}{F_a} = \frac{V + \sqrt{12}}{P} \Rightarrow P \cdot t = V + \sqrt{12} \Rightarrow P = \frac{V + \sqrt{12}}{t}$$

25 $S = 0 \Rightarrow P = \frac{V + \sqrt{12}}{t} = \frac{V - \sqrt{12}}{t}$

$$P \cdot a^2 - P \cdot a - 12 = 0 \Rightarrow P \cdot a^2 - P \cdot a - 12 = 0 \Rightarrow P = \frac{V + \sqrt{12}}{t}$$

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$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{P}{K}$$

(9 سوال)

$$y = -Fm - F \frac{P}{K} \Rightarrow y = -F \left(\frac{P}{K} \right) - \frac{1}{K} - \frac{1}{K} - \frac{1}{K} - \frac{1}{K}$$

$$5 \quad \frac{-1}{5a} = \frac{-b^2 + 8a^2}{5a} = \frac{-14 - 25K}{5K} = \frac{-F - 4K}{K}$$

$$\frac{-K - 4K}{K} = \frac{-1 - K}{K} \Rightarrow -K - 4K = -1 - K$$

$$\frac{-K}{K} = \frac{-1 - K}{K} \Rightarrow y = PK^P - Fm - 4$$

$$10 \quad \frac{-F - 4K}{K} = \frac{-1 - K}{K} = \frac{-K - 4K}{K} = \frac{-1}{K}$$

(10 سوال)

$$y = -m^2 P + m(m+1) + m \cdot P \Rightarrow y = -m^2 P + P(m+1) + (m+1)$$

(11 سوال)

$$(m+1)^P = F \cdot (m+1) \cdot (m+1) \cdot \dots$$

$$15 \quad m^2 + 1 + 2m + 2m^2 + 2m \cdot \dots \Rightarrow 3m^2 + 4m + 1 \cdot \dots \Rightarrow m^2 + 4m + 1 \cdot \dots$$

$$(m+1) \cdot (m+1) \cdot \dots \Rightarrow m^2 + 1$$

$$L \Rightarrow m = \frac{-2}{1}$$

-1	-1/2
+	-

20

$$\frac{-1}{2} \left(-1 \pm \frac{1}{2} \right)$$

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