

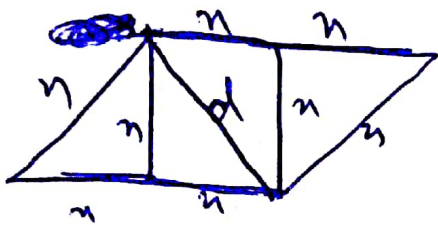
محمد حمیدی

مؤلف، مراح، ویراستار، مشور دسی ریاضی کا نون

مراح ریاضی ہم آہنگی کی کتابیں کسور

insta: math\_hamidi

09197133687



$$d^2 = n^2 + n^2 = 2$$

$$d = \sqrt{2}$$

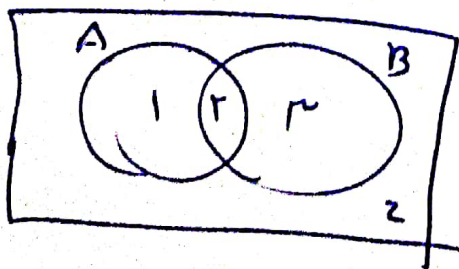
①

$$S_{\square} = S_{\Delta} + 3$$

$$n \times 2n = \frac{n \times n}{2} + 3 \Rightarrow 2n^2 = \frac{n^2}{2} + 3$$

$$\frac{3}{2}n^2 = 3 \Rightarrow n^2 = 2$$

$$n = \sqrt{2}$$



$A \cap B$

②

$$k^2 - k = 2 \Rightarrow k^2 - k - 2 = 0 \quad \boxed{3}$$

$$k = -1, k = 2$$

$$3m - 1 = 2 \Rightarrow m = 1$$

$$f_{(n)} = \begin{cases} |n| \operatorname{Sign}(-n) & [n] \geq 0 \\ 1 - \operatorname{Sign}(-n) & [n] < 0 \end{cases} \quad \boxed{4}$$

$$f\left(\frac{1}{3}\right) + \frac{f(-1/3)}{2 - \operatorname{Sig}(1/3)}$$

$$\frac{\frac{1}{2} \times -1}{-\frac{1}{2}} + 1 = \frac{1}{2}$$

$$\left. \begin{aligned} f(-2) = 3 &\rightarrow 2m - h = 3 \\ g(-2) = 3 &\rightarrow -2a + h = 3 \end{aligned} \right\} \Rightarrow \begin{aligned} 2m - 2a &= 6 \\ m - a &= 3 \end{aligned} \quad \boxed{5}$$

$$\hookrightarrow h = 3 + 2a \quad \boxed{m = a + 3}$$

$$f\left(-\frac{5}{4}\right) = g(-5) \Rightarrow \frac{5}{4}m - h = -5a + h$$

$$\frac{5}{4}a + \frac{15}{4} = -5a + 6 + 4a$$

$$\frac{m}{a} = \frac{4}{1} = 4 \quad \checkmark$$

$$\frac{2}{4}a = \frac{9}{4} \Rightarrow a = \underline{1}$$

$$\frac{f}{f \times g} = \left\{ (\sqrt{2}, -1), (\sqrt{3}, \frac{1}{2}) \right\} \quad \text{D} \textcircled{6}$$

$$\alpha, \sqrt{3}, \beta$$

$$\boxed{3 = \alpha \beta}$$

$$m=4 \rightarrow 9x^2 - 9x + 12 = 0$$

Δ < 0

7

$$m=-1 \rightarrow -x^2 - 9x - 3 = 0$$

$$\boxed{\alpha + \beta = -9}$$

$$3 = \frac{m^2 - 4}{m}$$

واحد  
دو  
سه

$$m^2 - 3m - 4 = 0$$

$$m = -1, 4$$

و دو  
سه

n

$$\frac{1}{n}$$

$$\frac{1}{n-4} = \frac{1}{n} + \frac{1}{3}$$

n-4

$$\frac{1}{n-4}$$

$$\frac{1}{n-4} = \frac{n+3}{3n}$$

$$n^2 - n - 12 = +3n$$

$$n^2 - 4n - 12 = 0$$

$$(n-6)(n+2) = 0$$

$$n = -2008$$

$$n = 600$$

$$\frac{1}{2} = \frac{1}{12} \quad \checkmark$$

$$\begin{array}{cccc} 8 & 6 & 4 & 2 \\ 7 & 6 & 4 & 2 \\ \bar{x} = \frac{19}{4} = 4,75 \end{array}$$

$$\sum = 9$$

$$\frac{35}{25 + 13 + 35 + 42 + 20 + 25} = \frac{x}{360} \quad \sum = 10$$

$$x = \frac{9 \times 35}{4} = 78,75 \checkmark$$

$$b = \frac{9}{4} a$$

$$\sum = 11$$

$$\bar{x} = \frac{3}{2} a$$

$$a = \frac{5}{8} b - \frac{3}{2} a = \frac{3}{8} a = \frac{3}{8} \times \frac{24}{5} = \frac{9}{5} = 1,8$$

$$\frac{5}{36} b = \frac{15}{8} a$$

$$b = \frac{9}{4} a$$

$$\bar{X} = \frac{18 + \frac{15}{4} a}{5} = \frac{3}{2} a$$

$$36 + \frac{15}{2} a = 15 a$$

$$36 = \frac{15}{2} a \rightarrow a = \frac{24}{5}$$

$$(q \Rightarrow (p \wedge q)) \wedge r$$

35 (12)

$$\underline{0 \Rightarrow 0}$$

$$\frac{T \wedge r}{r}$$

25 (13)

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94

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9

$$\frac{a+6}{a} = 1,449$$

95

9+6

$$\frac{a}{a+6}$$

96

1,449

$$\Rightarrow 1,449a^2 = a^2 + 12a + 36$$

$$-1,449a^2 - 12a - 36 = 0$$

$$\Rightarrow 11a^2 - 3a - 9 = 0$$

$$\frac{36}{30} - 1 = \frac{6}{30} \xrightarrow{\times 100} = 20\%$$

$$\Delta = 9 + 9 \times 0,44 = 9 \times 1,44$$

$$a = \frac{3 \pm 3 \times 1,2}{0,22} = \frac{3 \times 2,2}{0,22} = 30$$

35 (17)

$$p(x) = 0$$

$$x^2 + 540x - 112000 = 0$$

$$(x - 160)(x + 700) = 0$$

$$x = 160 \quad x = -700$$

$$4 \times 4 \times 2 = 32 \checkmark$$

$$45 \text{ (15)}$$

$$\frac{2 \times 4 \times 41}{61} = \frac{4}{15}$$

$$15 \text{ (16)}$$

$$\frac{9}{5} - \frac{1}{10} = \frac{17}{10} = 1,7$$

$$17 \text{ (17)}$$

$$a_3 + a_{28} = 61 + a_5$$

$$15 \text{ (18)}$$

$$a_1 + 2d + a_1 + 27d = 61 + a_1 + 4d$$

$$a_1 + 25d = 61$$

$$\underline{a_{15} = 61 \checkmark}$$

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math - hamidi

$$a_1 = 1458$$

$$r = \frac{1}{3}$$

$$729 = 19$$

$$a_n = 2 = 1458 \left(\frac{1}{3}\right)^{n-1}$$

$$\frac{1}{729} = \left(\frac{1}{3}\right)^{n-1} \rightarrow n-1 = 6 \Rightarrow n = 7$$

$$\frac{(2n)^5 \times 3^3 \times 7^3}{3^3 \times 5^3 \times 5^2} = 7^3$$

$$\Delta = 20$$

$$(2n)^5 = (5)^5 \Rightarrow 2n = 5 \Rightarrow n = 2,5$$

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