

تعمیرات
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مهندس مگر محمدی
صورت بنا - ریاضی و طرح از اصول انجمن

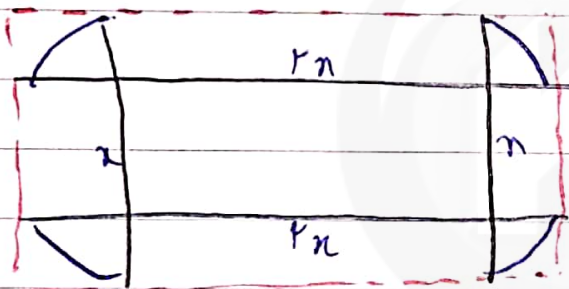
این مبررسی نرسه های برداریم؛ این تکبیر رسم به نرسه های اول (دقیقاً)

1) $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$ این هم می یابند؟

2) $(A \cap B) \cup (A \cap C)$

3) $(A - (A - B)) \cup (A - (A - C)) = (A \cap B) \cup (A \cap C)$

این طول ۲ برابر عرض است، این صورت ضلع ۲n، هر ضلع در نظر



تعمیرات

مساحت باغی = $2n^2$ $K' = 2n^2 + 4n + \pi$

$K' = K_{\text{باغی}} + (1 + \frac{1}{18} \pi) K_{\text{باغی}}$

$\Rightarrow 2n^2 + 6n + \pi = 2n^2 + \frac{(1 + \frac{1}{18} \pi) 2n^2}{18}$

$\Rightarrow 6n + \pi = \frac{(1 + \frac{1}{18} \pi) 2n^2}{18} \Rightarrow \frac{6n + \pi}{2n^2} = \frac{18 + \pi}{18}$

هنا! جا بگذار این نرسه ها را مشد به عبارتی $3 = 5n$

$$x^2 + 7x - 3$$

$$|\alpha + 2\beta| + |\alpha| - |\beta| \xrightarrow[\beta < 0]{\alpha > 0} |\alpha + \beta + \beta| + |\alpha| - |\beta|$$

$$= |\beta + \beta| + \alpha - (-\beta) \Rightarrow |\beta + \beta| + \alpha + \beta$$

$$\beta = -\frac{b}{a} = -7$$

$$|-7 + \beta| + (-7) \xrightarrow{\beta < 0}$$

$$\Rightarrow -7 - \beta - 7 = -\beta$$

$$f(x) = x \Rightarrow f(x) + f(-x) = x + (-x) = 0$$

$$f(-x) = -x$$

$$(0, 3x^2 - 17x + 10) \quad y = -x \quad 3x^2 - 17x + 10 = 0$$

$$\Delta = b^2 - 4ac = 169 > 0$$

$$x_1, x_2 = \frac{17 \pm 13}{6} = \begin{cases} \frac{30}{6} = 5 \\ \frac{4}{6} = \frac{2}{3} \end{cases} \Rightarrow 5 - \frac{2}{3} = \frac{13}{3}$$

در این مسئله اول، دوم برابر هم قرار می دهیم

$$\begin{cases} x + y = 4 \\ x - y = m^2 \end{cases}$$

$$\begin{cases} x + y = m^2 - 1 \\ x - y = m^2 \end{cases}$$

$$2x = 4 + m^2$$

$$2x = 2m^2 - 1$$

$$\Rightarrow 2m^2 - 1 = 4 + m^2 \Rightarrow 2m^2 - m^2 = 5$$

$$m^2 = 5 \Rightarrow x - y = m^2 \Rightarrow \underline{x - y = 5}$$

Date

No

$$\begin{cases} x+y=4 \\ x-y=5 \end{cases} \Rightarrow 2x=9 \Rightarrow x=\frac{9}{2}$$

$$\rightarrow \frac{9}{2} - y = 5 \Rightarrow y = -\frac{1}{2}$$

$$x^2 + y^2 = \left(\frac{9}{2}\right)^2 + \left(-\frac{1}{2}\right)^2 = \frac{81}{4} + \frac{1}{4} = \frac{82}{4} = 20.5$$

$$2kx^2 - 4x - 4k - 5 = 0 \quad \text{کے لیے } k \in \mathbb{Z} \quad \text{6}$$

$$p = \alpha\beta = \frac{c}{a} = \text{Max } \Delta$$

$$\Rightarrow \frac{-4k-5}{2k} = \frac{-4k}{2k} - \frac{5}{2k} = -2 - \frac{5}{2k}$$

کے لیے $2k \in \mathbb{Z}$ اور مجموعی طور پر

$$2k = -1 \\ k = -\frac{1}{2}$$

اذاً کجایں سے کجایں

$$2\left(-\frac{1}{2}\right)x^2 - 4x - 4\left(-\frac{1}{2}\right) - 5 = 0$$

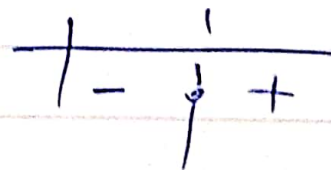
$$-x^2 - 4x - 3 = 0 \Rightarrow \Delta = b^2 - 4ac \\ \Delta = 4$$

$$f(x) = |2x - 2| \quad g(x) = [x]$$

$$\text{Domain} \rightarrow -1 \leq x \leq 1$$

$f \circ g$

$$\Rightarrow 2x - 2 = 0 \rightarrow 2x = 2 \Rightarrow x = 1$$

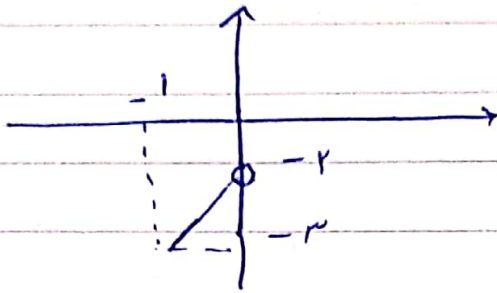


$$\underline{-1 \leq x < 0} \rightarrow f \circ g = (2x - 2)(-1) = 2x - 2$$

$$\underline{0 \leq x < 1} \rightarrow f \circ g = (2x - 2)(0) = 0$$

$$\underline{x = 1} \rightarrow f \circ g = (0)(1) = 0$$

$$y = 2x - 2 \quad m = 2 \quad h = -2$$



برای $-2 < y < -1$

← در 3 قسمت بازه را می‌بینیم

$$a = -1.5c \Rightarrow c = -\frac{2}{3}a$$

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$$\begin{cases} x = -2 \\ y = 0 \end{cases} \Rightarrow 0 = -2a + b \Rightarrow b = 2a$$

$$\begin{cases} x = -2 \\ y = 0 \end{cases} \Rightarrow 0 = -2c + d \Rightarrow d = 2c \Rightarrow d = -\frac{4}{3}a$$

$$f(x) = \left(-\frac{1}{3}ax - \frac{4}{3}a\right)^2 - (ax + 2a)^2$$

$$f(x) = \left(\frac{1}{9}a^2 - a^2\right)x^2 + \left(\frac{8}{9}a^2 - 4a^2\right)x + c'$$

$$\text{برای } x = \frac{-(\frac{8}{9}a - 4)a^2}{2(\frac{1}{9} - 1)a^2} = \frac{2\frac{8}{9}}{2x - \frac{8}{9}} = -\frac{2\frac{8}{9}}{1\frac{8}{9}} = -\frac{7}{4}$$

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۹

$$y = -\frac{1}{2} |2x + 1| = \ominus \left| x + \frac{1}{2} \right|$$

تغییر

استفاده از

10 طبق کتاب تالیفی (مترجمین) اما ان شاء الله تعالی در این 2 فصل

$$\sqrt{a^2 + b^2} = \sqrt{a^2 + b^2}$$

طرح بر است

$$\sqrt[4]{\sqrt{a^2 + b^2}} = \sqrt{\left(\frac{16}{9}a\right)^2 + b^2}$$

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$$= \frac{16}{9}(a^2 + b^2) = \frac{256}{81}a^2 + b^2$$

$$= \frac{16}{9}b^2 - b^2 = \frac{256}{81}a^2 - \frac{16}{9}a^2 \Rightarrow \frac{7}{9}b^2 = \frac{112}{81}a^2$$

$$b^2 = \frac{16}{9}a^2 \rightarrow b = \frac{4}{3}a$$

$$(p \wedge \sim q) \Rightarrow q \equiv (p \wedge \sim q) \vee q \equiv (\sim p \vee q) \vee q$$

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$$\equiv \sim p \vee q \equiv p \Rightarrow q$$

13

$$\text{ساختن} \frac{(9 \times 120) + (16 \times 240)}{(9 \times 42) + (16 \times 137,5)} \times 100 = 240$$

$$\frac{10(1209 + 3840)}{429 + 2200} = 24$$

$$\Rightarrow 12009 + 38400 = 10089 + 52800$$

$$12009 - 10089 = 52800 - 38400 \Rightarrow a = \frac{19900}{192} = 75$$

$$(20, 850), (25, 1000)$$

$$m = \frac{1000 - 850}{25 - 20} = \frac{150}{5} = 30$$

3/4

$$y - 1000 = 30(x - 25) \Rightarrow y = 30x + 250$$

$$C(x) = 30x + 250$$

$$R(x) = 55x$$

$$30x + 250 = 55x$$

$$25x = 250 \Rightarrow x = 10$$

$$x + 1 \text{ مورد از } \Gamma \Rightarrow 10 + 1 = 11 \checkmark$$

$$(\bar{x} - 2s', \bar{x} + 2s') = (220, 230)$$

3/5

$$\Rightarrow (225 - 5, 225 + 5)$$

$$2s' = 5 \Rightarrow s' = 2,5 \Rightarrow s'^2 = 6,25$$

$$2! \times 3! + 2! \times 3! + 2! \times 3! = 36$$

3/6

$$n(S) = 7!$$

$$n(A) = \binom{3}{2} \times 2! \times 5!$$

2/7

$$P(A) = \frac{n(A)}{n(S)} = \frac{3 \times 2 \times 5!}{7 \times 6 \times 5!} = \frac{1}{7}$$

$$a_{n+1} = \frac{1}{2} \left(a_n + \frac{a_1}{a_n} \right)$$

$$a_3 = \frac{1}{2} \left(a_2 + \frac{k}{a_2} \right)$$

$$a_1 = k = 2 \text{ مورد}$$

1/8

$$\frac{17}{12} = \frac{1}{2} \left[\frac{1}{2} \left(k + \frac{k}{k} \right) + \frac{1}{2} (k+1) \right] = \underline{k=2} \checkmark$$

$$\sqrt{a_2}, \sqrt{a_2^{No}}, \sqrt{a_{16}}$$

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$$\sqrt{a_1+d}, \sqrt{a_1+8d}, \sqrt{a_1+15d}$$

$$(\sqrt{a_1+8d})^2 = (\sqrt{a_1+d})(\sqrt{a_1+15d})$$

$$a_1+8d = \sqrt{a_1^2+16a_1d+15d^2}$$

$$a_1+16a_1d+64d^2 = a_1^2+16a_1d+15d^2$$

$$64d^2 = 15d^2 \Rightarrow d = 0 \quad \sqrt{a_1}, \sqrt{a_1}, \sqrt{a_1}$$

$$r = \frac{\sqrt{a_1}}{\sqrt{a_1}} = 1$$

$$f(x) = 2$$

320

$$\frac{1}{2}f\left(\frac{1}{2}\right) = 2 \quad f\left(\frac{1}{2}\right) = 4$$

$$f(x) = 2 \rightarrow 5 - 3^{a(x)+b} = 2 \Rightarrow 3 = 3^1 \Rightarrow b = 1$$

$$f\left(\frac{1}{2}\right) = 4 \rightarrow 5 - 3^{a\left(\frac{1}{2}\right)+b} = 4 \Rightarrow 1 = 3^{\frac{1}{2}a+1} \Rightarrow \frac{1}{2}a+1 = 0$$

$$f(x) = 5 - 3^{-2x+1}$$

$$a = -2$$

$$f\left(-\frac{1}{4}\right) = 5 - 3^{-2\left(-\frac{1}{4}\right)+1} = 5 - 3^{\frac{3}{2}} = 5 - \sqrt{27}$$

$$[5 - \sqrt{27}] = [\ominus] = -1$$

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از دست

theend

تقریباً ۱۵ سالہ (۱۹۸۰ء) سے (۲۰۰۰ء) تک