

191Vω

Subject: Year: Month: Day:

page: ()

y = ax + bx + c

A = (-1, 9) → -b/ra, -1 → b = 9a

9a - b + c = 1 = 9a + 9b + c } -1 = 19a → a = -1/19

y = -1/19 x - x + 1/19

b = -1, c = 1/19

Δ > 0 → b^2 - 4ac → m^2 - 19m - 1 > 0 → (m+1)(m-20)

S > 0 → -m/19 > 0 → m < 0

P > 0 → (m+4)/19 > 0 → m > -4

-4 < m < -1

also /

m^2 + (19m-1)m + 20 = 0

Δ > 0 → 19^2 - 4(1)(20) = 361 - 80 = 281 > 0

S = 1/P → -b/a = q/c → a' = -bc

q = -(19m-1)(1-m) → q = 19m - 20m^2 → 19m^2 - 20m - 1 = 0

m^2 - 19m - 1 = 0 → (m-20)(m+1)

Handwritten notes in Urdu script.

m = -1 → y = 19m^2 - 19m + 1, Δ < 0

m = 20 → y = 19m^2 + 4m - 1, Δ > 0

Δ > 0

9

10

15

20

25

30

Arman

$$x^2 - 2x - 15 = 0$$

$$S^2 - 2P = 1 + 14$$

زنگنه استادان

$$S = x_1^2 + \frac{1}{x_1} + x_2^2 + \frac{1}{x_2} \Rightarrow x_1^2 + x_2^2 + \frac{1}{x_1} + \frac{1}{x_2}$$

5

$$14 - \frac{1}{P} = \frac{21}{P}$$

$$\frac{x_1 + x_2}{x_1 x_2}$$

$$P = (x_1^2 + \frac{1}{x_1})(x_2^2 + \frac{1}{x_2}) \Rightarrow x_1^2 x_2^2 + \frac{x_1^2}{x_2} + \frac{x_2^2}{x_1} + \frac{1}{x_1 x_2}$$

$$10 \quad -4P + 1 + 1 = \frac{1}{P} = \frac{-21}{P}$$

$$y \cdot x^2 - 5x + P \Rightarrow y \cdot x^2 - \frac{21}{P} x - \frac{21}{P}$$

5

$$15 \quad x\sqrt{x} - \sqrt{x} + 1 - \frac{1}{\sqrt{x}} + \sqrt{x} - x = 2\sqrt{x} \Rightarrow$$

$$\sqrt{x^3} - \frac{\sqrt{x}}{x} - 2\sqrt{x} = 0 \xrightarrow{\times x} x^2 \sqrt{x} - 2x\sqrt{x} - \sqrt{x} = 0 \Rightarrow$$

$$20 \quad (x^2) x^{\frac{1}{2}} - (2x) x^{\frac{1}{2}} - x^{\frac{1}{2}} = 0 \Rightarrow S = \frac{-b}{a} = \frac{2\sqrt{x}}{\sqrt{x}} = 2$$

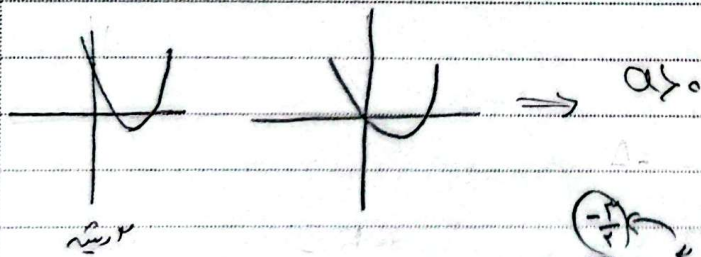
$$x_1 = 2x_2 \quad x_1 + x_2 \Rightarrow x_1 + 2x_1 = 5x_1 \quad x_1 x_2 = 2x_1^2$$

11 و 12

$$S = \frac{-b}{a} = \frac{a}{P} = 2x_1 \Rightarrow 2x_1 = a \Rightarrow \left. \begin{matrix} \Delta = a^2 \\ -\Delta = a \end{matrix} \right\} -\Delta - \Delta = \frac{14}{P}$$

$$25 \quad P = \frac{c}{a} = \frac{f}{P} = 2x_1^2 \Rightarrow 4x_1^2 = f \Rightarrow x_1^2 = \frac{f}{4} \Rightarrow \boxed{x_1 = \pm \frac{\sqrt{f}}{2}}$$

اصناف 14 است



5

بین مقادیر مثبتی که از مبدأ انداز این حالت را در نظر بگیرید

$$S = \frac{-f}{a} > 0 \quad \frac{-f}{-P+5} \rightarrow \frac{-f}{P} < 0$$

P > 0

در بین مقادیرهای a اشتراک بگیریم به ازای اینکه مقادیر این سه به هم برقرار نیست.

$$a = \frac{-b}{r} = \frac{-a}{r} = \frac{r}{-r} \Rightarrow \boxed{r = a}$$

$$\left. \begin{aligned} y &= x^r + rx - r \\ y &= -x^r - rx + b \end{aligned} \right\} \begin{aligned} 1 &= x^r + rx - r \\ 1 &= -x^r - rx + b \end{aligned}$$

$$r = b - r$$

$$\boxed{r = b}$$

$$\boxed{ab = r \times r = 1}$$

$$\alpha, \beta \Rightarrow \left(\alpha + \frac{1}{r}\right)\left(\beta + \frac{1}{r}\right)$$

$$S = \frac{-a}{ra} = \frac{-1}{r} = \alpha + \beta$$

$$\frac{a \times b}{c} = \left[\frac{-r}{r}\right] = \boxed{-r}$$

$$P = \frac{c}{a} = \frac{-4}{ra} = \frac{-r}{a} = \alpha\beta \Rightarrow -r = \alpha\beta$$

$$rx^r - ax + b = 0$$

$$\frac{1}{r}$$

$$S = \frac{a}{r} = \alpha + \frac{1}{r} + \beta + \frac{1}{r} \Rightarrow \alpha + \beta + 1 = \frac{a}{r} \Rightarrow \boxed{a = 1}$$

$$P = \frac{b}{c} = \left(\alpha + \frac{1}{r}\right)\left(\beta + \frac{1}{r}\right) \Rightarrow \frac{b}{r} = \frac{1}{r} + (\alpha + \beta)\frac{1}{r} + \alpha\beta \Rightarrow$$

$$\frac{b}{r} = \frac{1}{r} + \frac{1}{r} - r \Rightarrow \boxed{b = -4}$$

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Name:



$$a^r + 4m + m = 1 \Rightarrow S' = \frac{-4}{1} = -4 \Rightarrow a_1 + a_4$$

13

$$a^r + 4m - 4m = 1 \Rightarrow S'' = \frac{-4}{1} = -4 \Rightarrow a_1 + a_4$$

$$S' - S'' \Rightarrow a_1 + a_4 - (a_1 + a_4) = a_4 - a_4 \Rightarrow -4 + 4 = 0$$

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