

نام و نام خانوادگی: پاسخنامه تشریحی تکلیف شماره ۲... کلاس... ریاضیات

$$S = a + B = \Delta \quad B^T = \Delta B + \gamma = 0 \quad B^T = B \times B^T = B(\Delta B + \gamma) = \Delta B^T + \gamma B$$

$$P = aB = \gamma \quad \Rightarrow B^T = \Delta B + \gamma \quad \Rightarrow \Delta(\Delta B + \gamma) + \gamma B = \Delta B^T + \gamma B$$

$$B^T = B^T \times B = (\Delta B + \gamma)(\gamma B + \gamma) = 11\Delta B^T - 9\gamma B + \gamma = 11\Delta(\Delta B + \gamma) - 9\gamma B + \gamma$$

$$= \Delta \gamma \Delta B - \gamma \gamma - 9\gamma B + \gamma = \gamma \gamma B - \gamma$$

$$\Delta = \Delta - (B) \Rightarrow \Delta = \gamma - \gamma B \quad \Delta + B \Delta = \gamma - \gamma B + \gamma \gamma B - \gamma = \gamma \gamma B - \gamma$$

$$\Delta B^T = \Delta(\Delta B + \gamma) = \gamma \gamma B - \gamma \quad \frac{\gamma \gamma B - \gamma}{\gamma \Delta B - \gamma} = \frac{\gamma \Delta(\Delta B + \gamma)}{\Delta(\Delta B + \gamma)} = 19$$

$$x_5 = \gamma + (-\frac{1}{\Delta})$$

$$\frac{-\frac{1}{\Delta}}{\gamma \Delta} = \frac{1}{\Delta} \times \frac{1}{\gamma} = \frac{1}{\Delta \gamma}$$

$$-\frac{b}{a} = s = -\frac{b}{\gamma a} \times \gamma = \frac{1}{\Delta} \times \gamma = \frac{\gamma}{\Delta}$$

$$\frac{A}{B} = \frac{1}{\gamma} \quad \frac{A}{B} = \frac{1}{\gamma} \quad \frac{A}{B} = \frac{1}{\gamma} \quad \frac{A}{B} = \frac{1}{\gamma} \quad \frac{A}{B} = \frac{1}{\gamma}$$

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$$|a - B| = \frac{\sqrt{\Delta}}{|a|} \quad \Delta = (K)^T - f(1)(\Delta) = \gamma K^T - \gamma$$

$$\sqrt{\gamma K^T - \gamma} = \frac{\gamma K}{\gamma} \quad \gamma K^T - \gamma = \frac{\gamma K}{\gamma} \quad \gamma K^T - 11\gamma = \gamma K$$

$$\gamma K^T = 11\gamma \Rightarrow K^T = 11$$

$$K^T = 11 \Rightarrow [11] = 11$$

$$x = \frac{\gamma - \Delta}{\gamma} = -1 \quad (-1, 1) \quad y = a(x+1)^T + 1$$

$$y = a(x+1)^T + 1 = 11a + 1 \quad \frac{1+B}{\gamma} = -1 \Rightarrow a+B = -\gamma \quad a^T + B^T = \Delta = \gamma - \gamma P$$

$$(-\gamma)^T - \gamma P = \gamma - \gamma P \Rightarrow P = -\frac{1}{\gamma} \quad y = ax^T + \gamma ax + a + 1 \quad aB = \frac{\gamma}{a} = \frac{a+1}{a}$$

$$\frac{a+1}{a} = -\frac{1}{\gamma} \Rightarrow a = -\frac{\gamma}{\gamma} \quad y = a(0+1)^T + 1 = a+1 \Rightarrow y = 1 - \frac{\gamma}{\gamma} = \frac{1}{\gamma}$$

$$x_{\text{opt}} = \frac{-b}{\gamma a} = \frac{-\Delta}{-\gamma} = \frac{\Delta}{\gamma} \quad f(\frac{\gamma}{\gamma}) = -(\frac{\gamma}{\gamma}) + a(\frac{\gamma}{\gamma}) + m$$

$$\frac{\gamma}{\gamma} + m > 0 \Rightarrow m > -\frac{\gamma}{\gamma} \quad m \geq -\gamma$$

$$\boxed{\text{مقدار صحیح}} \leftarrow \text{مقدار صحیح}$$

$$x = \frac{-b \pm \sqrt{\Delta}}{\gamma a} \rightarrow \frac{-\Delta \pm \sqrt{\Delta^2 - \gamma(-1)(m)}}{-\gamma} < \frac{\gamma}{\gamma} \rightarrow \pm \sqrt{\Delta^2 + \gamma m} < \gamma$$

$$\pm \sqrt{\Delta^2 + \gamma m} < \gamma \rightarrow -\gamma \Delta < m < -\gamma \Delta \rightarrow m \in \{-\gamma, -\gamma, -\Delta, -\gamma\} \rightarrow \text{مقدار صحیح}$$

$$Y_{min} = c - \frac{b^2}{4a} \quad Y = \Delta m - 1 - \frac{1}{fm}$$

$$r = \Delta m - 1 - \frac{1}{fm} \Rightarrow r = \Delta m - \frac{1}{fm}$$

$$\Delta m^2 - r m - \frac{1}{f} = 0 \Rightarrow m = \frac{1}{2\Delta} - \frac{1}{2\Delta^2}$$

$$m = r \Rightarrow m > 0 \rightarrow \frac{1}{2\Delta} - \frac{1}{2\Delta^2} > 0$$

$$x = -\frac{b}{2a} = \frac{1}{2\Delta} \quad \checkmark$$

(Y)

$$d^2 = 4B$$

$$d^2 = 4a - 1 \Rightarrow d^2 = 4a - 1$$

$$d^2 - 4a + 1 = 0 \Rightarrow (d-1)^2 = 0 \Rightarrow d=1 \quad \checkmark$$

(Y)

$$+v$$

$$Y = x^2 \quad x^2 - vx^2 - \Delta = 0$$

$$y^2 - vy - \Delta = 0$$

$$\Delta = 49 + 40 = 89$$

$$y = \frac{v \pm \sqrt{89}}{2} \rightarrow y = \frac{v + \sqrt{89}}{2} \rightarrow x = \pm \sqrt{\frac{v + \sqrt{89}}{2}} \rightarrow s < 0 \Rightarrow p = -\frac{v + \sqrt{89}}{2}$$

$$2p^2 - 2sp + 2s = 2p^2 \Rightarrow p^2 = \left(-\frac{v + \sqrt{89}}{2}\right)^2 = \frac{v^2 + v\sqrt{89} + 89}{4} \Rightarrow 2p^2 = \frac{v^2 + v\sqrt{89} + 89}{2} \quad \checkmark$$

(Y)

$$xs = \frac{r}{k} \quad ys = -\frac{f}{k} - 9 \quad y = -fx - f$$

$$-\frac{f}{k} - 9 = -\frac{1}{k} - f \quad \frac{f}{k} = 8 \Rightarrow k = 8$$

$$ys = -\frac{f}{k} - 9 = -1 \quad \checkmark$$

(Y)

$$y = -mx^2 + mx + 1$$

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

$$y = -m - x$$

$$-mx^2 + mx + x + m + 1 < 0$$

$$-mx^2 + (m+1)x + m+1 < 0$$

$$\Delta < 0 \Rightarrow (m+1)(2m+1) < 0$$

$$-1 < m < -\frac{1}{2}$$

$$\boxed{-1 < m < -\frac{1}{2}} \quad \checkmark$$

(Y)