

نام و نام خانوادگی: ... شماره: ...
 پاسخنامه تشریحی تکلیف شماره ۱۱ - تاریخ: ...

الف) $y = x^2 - 2x + 1$

Min $\left| \frac{x}{1} = 1 \right|$
 $x - 1 + 1 = 1$

ب) $y = -x^2 + 2x - 1$

Max $\left| \frac{-x}{-1} = 1 \right|$
 $-x + 1 - 1 = 1$

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$x^2 - (m+1)x + \frac{1}{4}m + 1 = 0$

$m \in (-\infty, -1] \cup [2, +\infty) \Delta \geq 0$

الف) $\Delta > 0$
 $(m+1)^2 - 4 \left(\frac{1}{4}m + 1 \right) > 0$
 $m^2 + 2m + 1 - m - 4 > 0$
 $m^2 + m - 3 > 0$
 $m \in (-\infty, -3) \cup (2, +\infty)$

ب) $\Delta = 0$
 $m \in \{-3, 2\}$

ج) $\Delta < 0$
 $m \in (-3, 2)$

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$y = (m-1)x^2 - 2(m-1)x + 1 = 0$

$\frac{-b}{a} < -\frac{r}{m-1} < \frac{1}{1-\frac{1}{2}} + \frac{1}{m-1} > \frac{1}{m-1}$

الف) $\Delta > 0$
 $\frac{C}{a} > 0 \quad \frac{-b}{a} < 0$
 $m > 1 \quad (I) \cap (II) = \emptyset$

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$\frac{C}{a} < 0 \quad m < 1 \quad \Delta > 0$

$\frac{-b}{a} < [1, 2) \quad (m-1)^2 - 4(1)(m-1) > 0$
 $m^2 - 2m + 1 - 4m + 4 > 0$
 $m^2 - 6m + 5 > 0$

ب) $x_1 + x_2 < x_3 > 0 \quad x_4 < 0$

$\frac{C}{a} < 0 \quad m < 1$

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$y = (m-1)x^2 - 2(m+1)x + 1 = 0$

$A \rightarrow a < 0 \rightarrow m < 1$
 $\Delta > 0 \rightarrow \dots$
 $P < 0 \rightarrow m < 1$

$B \rightarrow a > 0 \quad m > 1$
 $\Delta > 0 \rightarrow \dots$
 $P < 0 \rightarrow m < 1$

$A \cup B = m < 1$

الف) $\Delta > 0$

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$\frac{-b}{2a} = -1 \quad \frac{4m+1}{4m-1} = -1 \quad 4m+1 = -4m+1$
 $4m = 0 \quad m = 0$

ب) $\Delta > 0$

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$\frac{r}{c} x^2 - (r \sin \alpha) x + \frac{c}{r} = 0$

$b^2 - 4ac > 0 \quad r^2 \sin^2 \alpha - 4 > 0 \quad \sin^2 \alpha > 1 \quad \sin \alpha = \pm 1$

$\left(\frac{r}{c} x^2 - 2x + \frac{c}{r} \right) = 0 \quad r^2 x^2 - 12x + 4 = 0$
 $(rx - 2)^2 = 0 \quad x = \frac{2}{r}$

الف) $\Delta > 0$

$$y = \frac{(x^2 - 1)(x^2 - 1)}{1 - x^2} = \frac{(x-1)(x+1)(x-1)(x+1)}{(1-x)(1+x)} \quad x \neq \pm 1$$

$$y = -4x^2 + 12x + 2 = 0$$

$$\frac{1}{s} \begin{cases} \frac{-12}{-14} = \frac{12}{14} \\ -4 \left(\frac{12}{14} \right) + \frac{12 \times 12}{14} + \omega = \frac{-14 \text{ V}}{14} + \frac{819}{14} + \frac{40}{14} = \frac{3199}{14} \end{cases}$$

$$m\lambda^r - (m+1)\lambda - r = 0$$

$1s - \omega p_{+V}$

$s' - r p_-?$

$$\frac{\Psi(m+\nu)}{m} = \frac{-1.0}{m} + V \Rightarrow \frac{\Psi(m+\frac{1}{2})}{m} = V$$

$$S = -\frac{b}{a} \frac{M+Y}{M}$$

$$\rho = \frac{\gamma}{M}$$

$$P_m + P = V_m \quad \underline{M \propto K} \quad r_2' - r_2 - r = 0 \quad S = \frac{1}{r} \quad P = -\frac{1}{r}$$

$$s' - r\rho = \frac{1}{\varepsilon} + r = \frac{\omega}{\varepsilon}$$

$$x' - \omega x + y = 0$$

$$\frac{r_A + \beta^A}{\omega \beta^A} = \frac{r_A}{\omega \beta^A} + \frac{\beta^A}{\omega} = \frac{\frac{r_A}{\omega}}{\frac{\beta^A}{\omega}}, \quad \frac{\alpha^A}{\omega} + \frac{\beta^A}{\omega} = \frac{1}{\omega} (s^A - p_A) \cdot s$$

$$P=r \quad \omega \beta^r = \omega \left(\frac{r}{\alpha} \right)^r = \frac{r}{\alpha r}$$

$$\frac{1}{2} \left(\frac{120 - 40}{120} \right) = 0.5$$

$$y_f = rx + 1. \quad x=r \rightarrow y_f = f+1 = [K] \xrightarrow{x=K} y = -4+1 = [K]$$

$$y_i = a_1^y + b_1^y + c_1^y \quad \text{NC} = K_1$$

$$\mu_a = \mu_0$$

$$\psi_{\phi a} = \psi_0$$

$$y = x^p + 1^p x + 1^p$$

محور بکار

$$\frac{-b}{2a} = \frac{-c}{2}$$

$$n = \frac{-a}{2}$$

$$r z^r + (m+1)z + m+1 = z$$

محاسن ہے یہ نفع الدنیا ہے ۱۵ = ۵

$$Y_{22}^Y + mZ + m + 4 = 0$$

$$\Delta: m^p - (p)(p)(m+4) = m^p - 4m - 4p = 0$$

$$(m-14)(m+k)=0$$

$\sim \gamma \quad m=14$

$$\hookrightarrow m = -\mu$$