

با فرض B

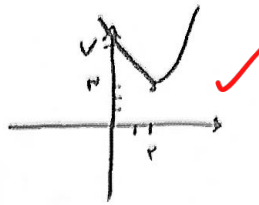
۲۰ عالی نوشتن!

برهان منطقی

$$y = x^2 - 4x + 7$$

$$f = -1 + 7$$

$$\left| \frac{f}{r} = 2 \right|$$

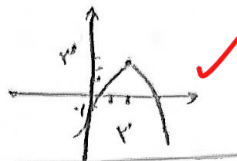


۱- (۲)

$$y = x^2 + 4x - 1$$

$$f = 4 - 1$$

$$\left| \frac{f}{r} \right|$$



۲- (۲)

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

$$m^2 + 1 + 2m - 1 \left(\frac{1}{r}m + 1 \right) > 0$$

$$m^2 - 2m - 1 < 0$$

$$\frac{2 \pm \sqrt{4 + 4}}{2} < 0$$

$$m^2 - 2m - 1 = 0 \rightarrow \begin{matrix} m = -1 \\ m = 3 \end{matrix}$$

الف) در این صورت $\Delta > 0$

$$\frac{-2 \pm \sqrt{4 + 4}}{2} \in (-\infty, -1] \cup [3, \infty)$$

ب) یک ریشه صحیح $\Delta = 0$

ج) بدون جواب $\Delta < 0$ $\frac{-2 \pm \sqrt{4 + 4}}{2} \in (-1, 3)$

د) ریشه داشته باشد $\Delta > 0$ $\frac{-2 \pm \sqrt{4 + 4}}{2} \in (-\infty, -1] \cup [3, \infty)$

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

$$(-2m-2)$$

$$f_m^2 + f + 1 + 1 - f \cdot (m-2) > 0$$

$$f_m^2 + f + 1 + 1 - f \cdot m - 1$$

$$f_m^2 - 2m - 1 < 0$$

Δ هوای مثبت

الف) دو ریشه منفی $\Delta > 0$ $\frac{1}{m-2} > 0$

$P > 0$

$$\frac{1}{m-2} > 0$$

$$m > 2$$

$$\frac{2m+2}{m-2} < 0$$

$$\frac{-1 \pm \sqrt{1 + 1}}{2}$$

(ب)

$$\frac{1}{m-2} < 0$$

$$\frac{1}{m-2} < 0$$

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

$$S < 0$$

$$\frac{2m+2}{m-2} < 0$$

$$\frac{-1 \pm \sqrt{1 + 1}}{2}$$

$$(-1, 2)$$

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

(r) - r

$$\Delta \rangle \rightarrow \lambda^r \langle \lambda^r$$

دفعه اول (دفعه)

$$P \langle \lambda^r = \frac{1}{m-r} \langle \lambda^r$$

$$\frac{r}{-1} +$$

$$(-\infty, r) \checkmark$$

$$\frac{-b}{1a} = -r$$

$$\frac{r_{m+r}}{r_{m-r}} = -r$$

$$r_{m+r} = -r_{m-r} + 1$$

$$r_{m-r} = 4$$

$$(m=1) \checkmark$$

$$\frac{r_{\lambda^r}}{r} - (r \sin^2 \alpha) \lambda^r + \frac{r}{r} = 1$$

$$\Delta \rangle \Rightarrow \langle \sin^2 \alpha - r \rangle = 0$$

(r) - d

$$\alpha \rangle =$$

$$\frac{r}{\frac{r}{r}} = \left(\frac{r}{r} \right) \checkmark$$

$$\sin^2 \alpha \geq 1 \quad \therefore \langle \sin^2 \alpha \rangle \leq 1$$

$$\langle \sin^2 \alpha \rangle = 1$$

$$y = \frac{(r_{\lambda^r} - r_{\lambda-1})(r_{\lambda^r} - r_{\lambda-1})}{1 - \lambda^r}$$

$$\frac{-1}{(r-1)(r+1)(r+1)(r-1)} = -\lambda^r + 1r_{\lambda} + d$$

$$= -\lambda^r + 1r_{\lambda} + d \quad (r) - r$$

دفعه اول

$$\frac{b}{r_{\lambda}} = \frac{1}{r_{\lambda}} \Rightarrow \frac{r_{\lambda} - 1}{r_{\lambda}} + \frac{1}{r_{\lambda}} + d = \frac{r_{\lambda} - 1}{r_{\lambda}} + \frac{1}{r_{\lambda}} + d$$

$$\frac{r_{\lambda} - 1}{r_{\lambda}} + \frac{1}{r_{\lambda}} + d = \frac{r_{\lambda} - 1}{r_{\lambda}} + \frac{1}{r_{\lambda}} + d \checkmark$$

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

$$S = \frac{m+r}{m} \quad P = -\frac{r}{m}$$

(r) - V

$$r \frac{m+r}{m} = d \left(-\frac{r}{m} \right) + V$$

$$r_{\lambda^r} - r_{\lambda} - r$$

$$\frac{r_{m+r}}{r_{\lambda}} = -1 + \frac{V_{m-r}}{r_{\lambda}}$$

$$\frac{1}{r} = \frac{r_{m-r}}{r_{\lambda}} \quad (r=m)$$

$$\frac{r_{\lambda}}{r} + \frac{r}{r} = \left(\frac{1}{r} \right) \checkmark$$

$$\lambda^r - d \lambda + r = 0$$

$$a \beta = r$$

$$S = d$$

$$\beta = \frac{r}{\alpha} \quad \beta^r = \frac{r}{\alpha^r}$$

$$P = r$$

(r) - A

$$\frac{r_{\lambda}}{a \beta^r} + \frac{r_{\lambda}}{a \beta^r} = \frac{r_{\lambda}}{a \beta^r}$$

$$\frac{a^r + \beta^r}{a} = \frac{S^r - r_{\lambda} P}{a}$$

$$\frac{1r_{\lambda} - r_{\lambda}}{a} = (19) \checkmark$$

$$y_1 = ar^r + b\alpha + c$$

$$dr = r\alpha + 1$$

$$c = r$$

$$(r) - 9$$

$$ra + rb + r = 1r$$

$$r \Rightarrow 1r$$

$$-r \Rightarrow r$$

$$ra + rb + r = 1r$$

$$ra + rb + r = 1r$$

$$\frac{-b}{ra} = \left(\frac{-r}{r} \right) \checkmark$$

$$1ra + rb = 1r$$

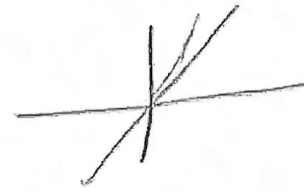
$$1ra - rb = 0$$

$$1ra - rb = 0$$

$$r \cdot a = r \cdot (a = 1)$$

$$b = r$$

$$ra^r (m+1) + mry$$



$$(r) - 10$$

$$ra^r (m+1) + mry = a$$

$$ra^r m + mry = a$$

$$\Delta =$$

$$m = 1r \Rightarrow ra^r + 1ra + 1a \rightarrow a^r + ra + a =$$

$$\frac{m^r - 1am - 1a}{r} \begin{cases} (1r) & \text{G.G.E} \\ (-r) & \text{G.G.E} \end{cases}$$

$$(a+r)^r = \rightarrow a = -r \rightarrow X \text{ جواب}$$

$$m = -r \Rightarrow ra^r - (a+r) \rightarrow a^r - ra + \frac{a^r}{r} =$$

$$(m = -r) \checkmark$$

$$(a-1)^r \xrightarrow{a=1} \text{جواب}$$