

(1,0)

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21

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- 2

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19

⑦ $\frac{-15}{5}$

Q

$$\alpha\beta = a^r - r(a+1) = a + \beta \Rightarrow r(a+1) = \alpha\beta - a^r \Rightarrow r(a+1) = a^r - (a+1) \Rightarrow a^r - r(a+1) = 0 \Rightarrow (a-1)^r \Rightarrow a=1 \Rightarrow n^r + r(a+1)n + r(a-1) = 0$$

$$\Rightarrow a^r + r(a+1) = 0 \Rightarrow \alpha\beta = 1 \quad a + \beta = -r \quad a = -r + \sqrt{r^2 - 4}$$

$$\text{دسټو } \alpha = -r + \sqrt{r^2 - 4} \quad \beta = -r - \sqrt{r^2 - 4}$$

$$n^r = t \Rightarrow t^r - vt - 2 = 0 \Rightarrow t \leq n^r \leq \frac{v \pm \sqrt{v^2 - 4}}{2} \Rightarrow n \leq \pm \sqrt{\frac{v \pm \sqrt{v^2 - 4}}{2}}$$

$$\Rightarrow 5 \leq n \leq \frac{v + \sqrt{v^2 - 4}}{2} = 2p^r - r\beta + r\alpha = 2p^r - r(-r - \sqrt{r^2 - 4}) + r(-r + \sqrt{r^2 - 4})$$

$$\frac{-b}{\pm a} \Rightarrow k \leq a \leq b \Rightarrow \frac{-t}{\pm k} \leq \frac{r}{k} \Rightarrow k \left(\frac{r}{k} \right)^r - r \left(\frac{r}{k} \right) \leq -t$$

$$\Rightarrow \frac{-t}{k} - r \Rightarrow \frac{t}{k} \leq r$$

$$\Rightarrow k \leq r \quad \text{عرض} \quad r - 2 - 4 = 1$$

$$-mn^r + m(n+1) = -m(n-1) \Rightarrow -mn^r + m(n+1) + m(n-1) = 0$$

$$\Rightarrow \Delta < 0 \Rightarrow m^r + r(m+1) + 4m^r + 4m \Rightarrow 5m^r + r(m+1) < 0 \Rightarrow m^r + r(m+1) < 0$$

$$\Rightarrow (m+2)(m+1) < 0 \quad \frac{-2}{5} > -1 > -\frac{1}{5} \quad \frac{-1}{5} - \frac{-1}{5}$$

$$\text{جواب نه نه } (-1, -\frac{1}{5})$$