

کیمیاء فرائض - دہم دفتر - طلبہ ۲۲

$$\textcircled{1} \quad \alpha\beta = r \rightarrow \alpha = \frac{r}{\beta} \rightsquigarrow \frac{\frac{1}{\beta} + \beta^2}{\omega\beta^r} \rightarrow \frac{1 + \beta^3}{\omega\beta^r} \rightarrow \frac{(1 + \beta^3)(r - r\beta^r + \beta^r)}{\alpha\beta^r \cdot \beta^r}$$

$$\beta^r - \omega\beta - r = 0, \beta^r + r = \omega\beta \rightsquigarrow \frac{r - r\beta^r + \beta^r}{\beta^r} = \frac{(\beta^r + r)^r - r\beta^r}{\beta^r} = \frac{19\beta^r}{\beta^r} = 19$$

$$\textcircled{2} \quad \frac{r}{r} = \frac{r}{r} \rightsquigarrow \frac{-b}{ra} = \frac{r}{r} \rightarrow \frac{-b}{a} = \frac{r \times r}{r} = \frac{r}{r}$$

$$\textcircled{3} \quad \frac{\sqrt{\Delta}}{|a|} = |x_1 - x_2| \rightsquigarrow \frac{\sqrt{rk^r - r^2 \times 0}}{1} = \frac{r}{r} k \rightarrow rk^r - r^2 = 0 \rightarrow k^r = \frac{r}{r} = 1$$

$$rk^r - 180 = 12k^r \rightarrow r_0 k^r = 180 \rightarrow k^r = 9 \rightarrow k = \pm 3$$

$$\left[ \frac{9}{r} \right] \rightarrow K$$

$$\textcircled{4} \quad \frac{-b}{ra} = \frac{r - \omega}{r} = -1 \rightarrow \frac{-b}{ra} = -1 \rightarrow b = ra \quad \alpha + \beta = \frac{-b}{a} = -r$$

$$\alpha^r + \beta^r = (\alpha + \beta)^r - \frac{r\alpha\beta}{r} = \omega \rightarrow r - r\alpha\beta = \omega, \alpha\beta = \frac{-1}{r}$$

$$y = a(x - \alpha)(x - \beta) \xrightarrow{x=0} y = a(-\alpha)(-\beta) \rightarrow ax \frac{-1}{r}$$

$$\xrightarrow{(-1, 1)} 1 = a(1 + \underbrace{\alpha + \beta}_{-r} + \underbrace{\alpha\beta}_{\frac{-1}{r}}) \rightarrow 1 = a\left(\frac{-r}{r}\right) \rightarrow a = \frac{-r}{r}$$

$$\left. \begin{array}{l} \frac{-x}{r} \times \frac{-1}{r} = \frac{1}{r} \\ (0, \frac{1}{r}) \end{array} \right\}$$

$$\textcircled{5} \quad \Delta = b^r - 4ac \rightsquigarrow r\omega - (r^2x - 1 \times m) \rightarrow r\omega + rm > 0 \quad m > \frac{-r\omega}{r} \textcircled{1}$$

$$\xrightarrow{f(\frac{1}{r})} -\left(\frac{9}{r}\right)^r + \frac{\omega \times 9}{r} + m \rightarrow \frac{-11}{r} + \frac{\frac{10}{r} \times 9}{r} + m > 0 \rightarrow m > \frac{-9}{r} \textcircled{2}$$

$$\xrightarrow{2, 1} \frac{-r\omega}{r} < m < \frac{-9}{r} \rightsquigarrow -r, -r, -\omega, -9 \left( \frac{-r}{r}, \frac{-9}{r} \right)$$

$$\xrightarrow{h} -9 < m < -r, m$$

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$$④ \quad mx^r - 1rx + am - 1 \rightarrow \min : \frac{-b}{2a} = \frac{1r}{2m} = r \rightarrow m = r$$

$$y : rx^r - 1rx + 1r \rightarrow \frac{1r}{r} = r \rightarrow \text{نقطه } x = r$$

$$⑤ \quad a^r = \alpha \beta \rightarrow \frac{\rho}{\alpha \beta} = \frac{c}{a} = 2a - 1$$

$$a^r = 2a - 1 \rightarrow a^r - 2a + 1 = 0 \rightarrow (a - 1)^r = 0 \rightarrow a = 1$$

$$x^r + rx + 1 = 0 \rightarrow \Delta = 1r^2 - 4 = 1r^2 - 4 \rightarrow x = \frac{-r \pm \sqrt{r^2 - 4}}{2} = \frac{r(-r \pm \sqrt{r^2 - 4})}{2} = -r \pm \sqrt{r^2 - 4}$$

$$\sqrt{r^2 - 4}, 1, -\sqrt{r^2 - 4}$$

\* متنی غیر قابل قبول

$$① \quad x^r, t \rightarrow t^r - vt - d = 0 \rightarrow \Delta = 49 - (-20) = 69 \Rightarrow t = \frac{v \pm \sqrt{49}}{r}$$

$$x = \frac{v + \sqrt{49}}{r} \rightarrow s = 0$$

$$rp^r - r^2sp + r^2s = ? \rightarrow rp^r = \frac{(v + \sqrt{49})^r}{r} \rightarrow 29 + v\sqrt{49}$$

$$⑨ \quad \frac{f}{rk} = \frac{r}{k} \quad y = \frac{k \times f}{k^r} = \frac{1}{k} - y = \frac{-f}{k} - y$$

$$-\frac{f}{k} = -r$$

$$x = \frac{r}{k} \quad y = -fx - r \rightarrow y = \frac{-1}{k} - r \rightarrow \frac{-f}{k} - y = \frac{-1}{k} - r \rightarrow k = 1$$

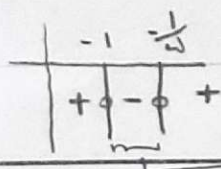
$$y : rx^r - rx - r \rightarrow x = 1 \quad y = -1$$

$$⑩ \quad -mx^r + mx + 1 = -m - x \rightarrow 0 = -m - x + mx^r - mx - 1$$

$$mx^r - (m+1)x - m - 1 = 0 \quad -rm^r - rm$$

$$\Delta < 0 \rightarrow (m+1)^r - (r^2 \times m(-m-1)) < 0$$

$$m^r + 1 + 2m + rm^r + rm < 0 \rightarrow 2m^r + 4m + 1 < 0 \rightarrow (2m+1)(m+1) < 0$$



در این بازه هیچ عدد صحیحی نیست!

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