

$$y_{\max} = \frac{-\Delta}{c a} = \frac{-(b^2 - c(-1)(c))}{-c} = \frac{b^2 + 12}{c} = \frac{b^2}{c} + 12 = 17 \Rightarrow \frac{b^2}{c} = 5 \Rightarrow b^2 = 5c \Rightarrow b = \pm \sqrt{5c}$$

$$n^2 = t \Rightarrow t^2 + 2t + 2 = 0 \Rightarrow \Delta = 4 - 4(1)(2) = 4 - 8 = -4 < 0 \Rightarrow \text{رہے نہیں زیادہ} \Rightarrow \text{رہے نہیں زیادہ}$$

$$c - n^2 = t \Rightarrow t^2 - 2t - 12 = (t-6)(t+2) = 0 \Rightarrow t = 6 \text{ or } t = -2 \Rightarrow \begin{cases} -2 \Rightarrow c - n^2 = -2 \Rightarrow n^2 = c + 2 \Rightarrow n = \pm \sqrt{c+2} \\ 6 \Rightarrow c - n^2 = 6 \Rightarrow n^2 = c - 6 \Rightarrow n = \pm \sqrt{c-6} \end{cases}$$

$$\beta = \alpha + 2 \quad S = \frac{-b}{a} = \frac{17}{c} = 17 \Rightarrow \alpha + 2 + \alpha = 17 \Rightarrow 2\alpha = 15 \Rightarrow \alpha = 7.5 \Rightarrow \beta = 9.5 \Rightarrow p = \frac{c}{a} = \frac{m}{c} \Rightarrow m = 12$$

$$\Rightarrow \beta = 2\alpha - 1 \Rightarrow S = \frac{-b}{a} = \frac{7}{c} = 7 \Rightarrow \alpha + 2\alpha - 1 = 7 \Rightarrow 3\alpha = 8 \Rightarrow \alpha = \frac{8}{3} \Rightarrow \beta = \frac{13}{3} \Rightarrow p = \frac{c}{a} = \frac{m-1}{c} = 1 \Rightarrow m-1 = c \Rightarrow m = c+1$$

$$\beta = \frac{1}{\alpha} \Rightarrow \alpha \beta = 1 = p \Rightarrow \frac{c}{a} = \frac{m^2 - 2}{-m} = 1 \Rightarrow m^2 - 2 = -m \Rightarrow m^2 + m - 2 = 0$$

$$1 \Rightarrow -n^2 + c(n-1) = 0 \Rightarrow \Delta = b^2 - 4ac = 14 - 4(-1)(-1) = 12 > 0 \checkmark$$

$$\Rightarrow m < -2 \Rightarrow 2n^2 + 2n + 2 = 0 \Rightarrow \Delta = b^2 - 4ac = 14 - 4(2)(2) = 2 < 0 \Rightarrow \text{رہے نہیں زیادہ}$$

$$p = \frac{c}{a} = \frac{r}{1} = r \Rightarrow \alpha \beta, r \quad \alpha \beta^r = (\alpha \beta) \beta = r \beta = r \Rightarrow \beta = \frac{r}{r} \Rightarrow \alpha = \frac{9}{r}$$

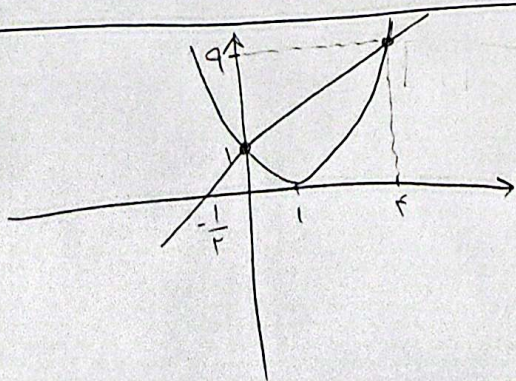
$$\Rightarrow S = \frac{r}{r} + \frac{9}{r} = \frac{14 + 2r}{1r} = \frac{r}{1r} \quad S = -\frac{b}{a} = -\frac{(-1-m)}{1}, m = \frac{r}{1r}$$

$$\beta = r \alpha \Rightarrow S = \alpha + r \alpha = r \alpha \Rightarrow S = -\frac{b}{a} = -\frac{(-1)}{1}, r \Rightarrow r \alpha = r \Rightarrow \alpha = 1 \Rightarrow \beta = r$$

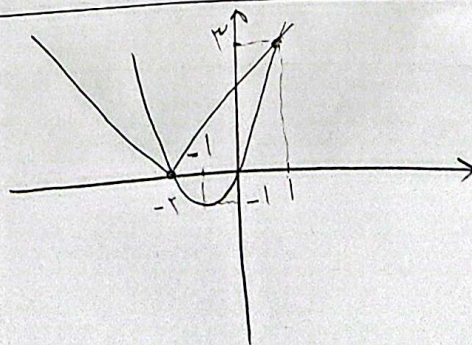
$$\rightarrow p = 1 \times r = r \quad p = \frac{c}{a} = \frac{m}{1}, m = r$$

$$p = r \Rightarrow p^r = \alpha^r \beta^r = 1 \Rightarrow \frac{1}{\alpha^r} = \beta^r \Rightarrow \alpha^r + \beta^r = S^r - r^r sp$$

$$\frac{S = V}{p = r} \rightarrow V^r - r(V)(r) = r^r - r^r = r^r \cdot 1$$



(الف 2)



$$y_{\max} = \frac{-\Delta}{4a} = \frac{-(\omega \cdot r - t(-1)(-1))}{-4} = \frac{\omega \cdot r}{4} = \frac{r \omega}{4} = 4r/\omega$$

$$h(t) \Rightarrow -1 \cdot t^r + \omega \cdot t \Rightarrow t^r - \omega t \Rightarrow t < \omega$$