

$$y = -x^2 + bx + r$$

(۱)

$$\frac{-\Delta}{2a} = \max$$

$$\frac{-(b^2 - 4ac)}{2a} = \frac{-(b^2 - r(r)(-1))}{-r} = \frac{-b^2 - 1r}{-r} = V$$

$$-b^2 - 1r = -rV$$

$$19 = b^2 \rightarrow \boxed{b = \pm 14}$$

$$f(x) = x^2 + rx + r$$

(۲)

$$x^2 = t \quad t^2 + rt + r = 0$$

$$\Delta = r^2 - r(r) < 0 \rightarrow \text{شماره}$$

$$f(x) = (r - x^2)^2 - r(r - x^2) - 10$$

$$r - x^2 = t$$

$$r - x^2 = 0$$

$$t^2 - rt - 10 = 0$$

$$-1 = x^2 \rightarrow \text{غیرممکن}$$

$$(t - 0)(t + r) = 0$$

$$r - x^2 = -r$$

$$t = 0 \quad t = -r$$

$$V = x^2 \rightarrow \boxed{x = \pm \sqrt{V}}$$

$$x_1 = a$$

$$x_2 = a + r$$

$$S = \frac{-b}{a}$$

(۳)

$$S = \frac{19}{r} = r = ra + r$$

$$r = ra \rightarrow \boxed{a = 1} \rightarrow \text{طول: } 19r$$

$$\frac{m}{r} = 1 \times r \rightarrow \boxed{m = 1r}$$

$$r^2 - 4r + m - 1 = 0 \quad S = -\frac{b}{a} \quad r\alpha - \beta = r \quad (1)$$

$$S = \frac{4}{r} = r = \alpha + r\alpha - r \quad r\alpha - r = \beta$$

$$r = r\alpha - r$$

$$4 = r\alpha \rightarrow \boxed{\alpha = r} \xrightarrow{\text{long}} r, 0$$

$$\xrightarrow{\text{long}} p = \frac{c}{a} \rightarrow \frac{m-1}{r} = r, 0 = 0$$

$$m-1 = 0 \rightarrow \boxed{m=1}$$

$$-mr^2 + r\alpha + m^2 - r = 0$$

$$r_1 = \alpha, \quad r_2 = \frac{1}{\alpha} \quad (2)$$

$$\frac{1}{\alpha} \times \alpha = 1 \quad \frac{m^2 - r}{-m} = 1$$

$$m^2 + m - r = 0$$

$$(m+r)(m-1) = 0$$

$$\boxed{m=-r} \quad \boxed{m=1}$$

$$\text{if } m=1 \rightarrow -r^2 + r\alpha + 1 - r = -r^2 + r\alpha - 1 = 0$$

$$\Delta = 14 - 4(-1)(-1) = 12 \quad \text{قق}$$

$$\text{if } m=-r \rightarrow +r\alpha^2 + r\alpha + r - r = r\alpha^2 + r\alpha + r$$

$$\Delta = 14 - 4(r)(r) = 0$$

$$\boxed{m=1} \text{ س } \leftarrow \text{پیش‌بینی در این حالت و غرق است}$$

$$r^2 - m\alpha + r = 0$$

$$a\beta^2 = r$$

$$\rightarrow a = \frac{r}{\beta^2}$$

$$a \times \beta = r \rightarrow \frac{r}{\beta^2} \times \beta = \frac{r}{\beta} = r \rightarrow \boxed{\beta = \frac{r}{r}} \rightarrow a = \frac{\frac{r}{1}}{\frac{r}{r}} = \frac{4}{r}$$

$$S = \frac{4 \times r}{r} + \frac{r \times r}{r} = \frac{14+14}{14} = \boxed{\frac{r}{14} = +m}$$

$$2r - k_2 + m = 0$$

$$m = a$$

$$2r = r^2 a$$

(v)

$$S - K = r^2 a + a = r^2 a \rightarrow \boxed{a = 1} \rightarrow \underline{\underline{\log r}}$$

$$P = 1 \times r^2 = \boxed{r^2 = m}$$