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$$y = -x^2 + bx + 3$$

①

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

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

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$$-b^2 - 4 = -8$$

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

$$f(x) = x^2 + px + 3$$

②

$$x^2 = t \quad t^2 + pt + 3 = 0$$

$$\Delta = p^2 - 4(3) < 0 \rightarrow \text{شماره}$$

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

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$$x - a = t$$

$$x - a = 0$$

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

$$-1 = 2t \rightarrow \text{عقده}$$

$$(t - 1)(t + 3) = 0$$

$$x - a = -3$$

$$t = 1 \quad t = -3$$

$$x = a \rightarrow \boxed{a = \pm \sqrt{14}}$$

$$x_1 = a$$

$$x_2 = a + 1$$

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

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$$S = \frac{19}{1} = 19 = 1a + 1$$

۱, ۷۰

$$19 = 1a \rightarrow \boxed{a = 19} \rightarrow \text{long} : 19$$

$$\frac{m}{1} = 1 \times 19 \rightarrow \boxed{m = 19}$$

$$F_n = 14m + 19 = 270$$

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

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

$$r = r\alpha - r$$

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

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

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

$$r^2 - 4r + m - 1 = 0 \quad \Delta > 0$$

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

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

$$\frac{1}{\alpha} \times \alpha = 1 \quad \frac{m^2 - r}{-m} = 1 \quad (3)$$

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

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

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

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

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

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

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

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

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

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

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

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

$$2r - \frac{r}{14} + r = 0 \quad \Delta > 0$$

$$x^r - kx + m = 0$$

$$m = a$$

$$x^r = r^2 a$$

(v)

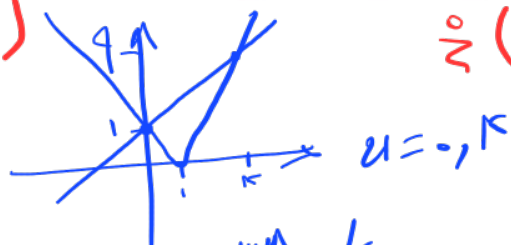
$$S - K = r^2 a + a = r^2 a \rightarrow \boxed{a = 1} \rightarrow \log \frac{L}{r} = 1, r$$

(1, 0)

$$p = 1 \times r = \boxed{r = m}$$

$$x^r - kx + r \rightarrow \Delta > 0 \checkmark$$

(الف)



(1, 0)

$$h_{max} = \frac{-\Delta}{E_{en}} = 4r, \Delta$$

(1)

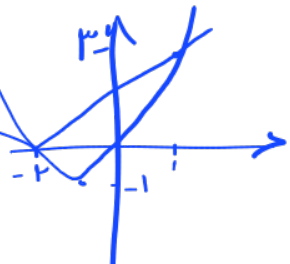
$$-1 \cdot t(t - \omega) = \begin{cases} t = 0 \cdot x \\ t = \omega \checkmark \end{cases}$$

$$\alpha \beta = r \rightarrow (\alpha = \frac{r}{\beta})^r$$

$$\beta = \frac{1}{\alpha^r}$$

$$\alpha^r + \frac{1}{\alpha^r} \rightarrow \alpha^r + \beta^r = 5 - r^2 p r$$

(ب)



(-1, -1)