

$$x^2 - ax + b = 0$$

لوران باجی

$$\frac{1}{+ \phi - \phi +}$$

$$S = \varepsilon = \frac{-(-a)}{1} \Rightarrow a = \varepsilon$$

$$P = \frac{-b}{1} = r \Rightarrow b = r$$

$$b + a = \varepsilon + r = \boxed{V}$$

$$x = -1 \Rightarrow x - rx = 0 \Rightarrow rx = -1 \Rightarrow r = -\frac{1}{x}$$

(r)

$$x = \varepsilon \Rightarrow K - r = 1 \Rightarrow K = r + 1, m - 1 = -\varepsilon \Rightarrow m = -\varepsilon$$

$$\frac{m}{n} + K = \frac{-\varepsilon}{-\frac{1}{\varepsilon}} + r = \boxed{1r}$$

$$\frac{1}{r} x^2 + rx + s > \frac{V}{r} \Rightarrow -\frac{1}{r} x^2 + rx + \frac{d}{r} > 0$$

(r)

$$\frac{-1}{-} + \frac{d}{+}$$

$$d > -1 \leftarrow \text{نقطه}$$

$$(a, b) = (-1, d) \Rightarrow b - a = d - (-1) = \boxed{4}$$

$$x^2 - rx - x + r < 0, x > 0$$

(r)

$$x^2 - rx - x + r = 0 \Rightarrow \frac{x^2 - rx - x + r}{x - 1} = 0 = x^2 - rx - r$$

$$\Rightarrow \frac{-1}{-} + \frac{1}{+} - \frac{r}{-} + \frac{r}{+} \xrightarrow{x > 0} (a, b) = (1, r) \Rightarrow F = \boxed{r}$$

$$a - 1 < 0 \Rightarrow a < 1$$

$$\Delta = a^2 + 1 - ra - \varepsilon a + 1 = a^2 + 2 - \varepsilon a$$

(d)

$$a^2 + 2 - \varepsilon a = (a - 1)(a - d) < 0 \quad \frac{1}{+} - \frac{d}{-} + \frac{d}{+} \Rightarrow a = (1, d)$$

$$a = (-\infty, 1) \cap (1, d) \Rightarrow a \in \emptyset$$

$$\frac{m^2(m^2+1)}{m-2} \quad \text{بقدره مثبت} \Rightarrow \frac{0}{+ \quad \phi \quad - \quad \phi \quad +} \quad (6)$$

$$m = (-\infty, 0) \cup (2, +\infty)$$

$$\left. \begin{array}{l} x^2 - x - 6 = (x+2)(x-2) \\ x^2 + x + 1 \text{ بقدره مثبت} \end{array} \right\} \Rightarrow \frac{-2}{+ \quad - \quad - \quad - \quad +} \quad (7)$$

$$\Rightarrow x = [-2, 2]$$

$$\frac{2x^2 - 2x}{x^2 + \varepsilon} < 2 \Rightarrow \frac{x^2 - 2x - \varepsilon}{x^2 + \varepsilon} < 0 \Rightarrow \frac{(x-\varepsilon)(x+2)}{x^2 + \varepsilon} < 0 \quad (8)$$

$$x^2 + \varepsilon \text{ بقدره مثبت} \Rightarrow \frac{-2}{+ \quad - \quad - \quad - \quad +}$$

$$(a, b) = (-2, \varepsilon) \Rightarrow b - a = \varepsilon - (-2) = \boxed{6}$$

$$\frac{2x^2 - 4x}{x+1} < 0 \Rightarrow \frac{-1}{- \quad + \quad - \quad +} \Rightarrow x = (-\infty, -1) \cup (0, \frac{2}{3}) \quad (9)$$

$$\frac{2x^2 - \varepsilon x + \frac{x+1}{x+1}}{x+1} > 0 \Rightarrow \frac{2x^2 - \varepsilon x + 1}{x+1} > 0 \Rightarrow \frac{-1}{- \quad \phi \quad +}$$

$$\Rightarrow x = (-\infty, -1)$$

$$\frac{x^2 - 1 - 2x}{x} \leq 0 \Rightarrow \frac{(x-1)(x+2)}{x} \leq 0 \quad (10)$$

$$\frac{-2}{- \quad \phi \quad + \quad \phi \quad - \quad \phi \quad +} \Rightarrow x = (0, 1] \cup (-\infty, -2]$$