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$$r_k^r + g^r - \varepsilon k + 4g + k = 0 \rightarrow (\sqrt{1k} - \sqrt{r})^2 (g + r) \rightarrow r_k^r + r + \varepsilon k + g^r + 4g + k$$

$$k = 9 + r = 11$$

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

$$\boxed{a=r} \rightarrow a = -1 \quad \text{O O E} \quad 1 \leq r \rightarrow r + r + r = \boxed{9}$$

$$a = 1$$

$$f(1) = 8$$

$$-r \rightarrow r \times 9 = b \rightarrow 11 = b \quad 11 = b, a = 4$$

$$\Theta^r \rightarrow a = 4 \rightarrow a = 4 \quad r r = a + b \rightarrow$$

$$\boxed{a+b=15}$$

$$4k - a > 0 \rightarrow 4k > a \rightarrow k > \frac{a}{4} \rightarrow P_f \left(\frac{a}{4}, +\infty \right) \quad \frac{a}{4} = 1 \rightarrow a = 4$$

$$b - r k > 0 \rightarrow r k \leq b \rightarrow k \leq \frac{b}{r} \rightarrow P_f \left(-\infty, \frac{b}{r} \right) \quad \frac{b}{r} = 1 \rightarrow b = 4$$

$$\frac{b}{a} = \frac{4}{11} = \frac{1}{r}$$

$$y = \sqrt{\frac{k+1}{|k-r|}} + \sqrt{\frac{4-k}{k^r+r_k+\varepsilon}} \rightarrow \frac{-1}{-1+} \rightarrow P_f[-1, +\infty) - \{r\}$$

$$\rightarrow [1, 4] - \{r\}$$

$$\frac{4}{+1-} \rightarrow P_f(-\infty, 4]$$

$$b) y = \sqrt{k} - \varepsilon + \sqrt{r - [k]} \quad [k] - \varepsilon > 0 \rightarrow [k] > \varepsilon \rightarrow P_f[\varepsilon, +\infty)$$

$$r - [k] > 0 \rightarrow [k] < r \rightarrow P_f(-\infty, r) \rightarrow \text{نقطه}$$

$$\text{الف} = \sqrt{\frac{k^r - k - 4}{k^r - 13k^r + 14}} \quad \sqrt{\frac{(k-r)(k+r)}{k^r - 13k^r + 14}} \quad t^r = 13t + 14 \rightarrow (t-9)(t-\varepsilon)$$

$$-r - r \star r \quad k^r = 9 \rightarrow k = \pm 3 \quad k^r = \varepsilon \rightarrow k = \pm 1$$

$$(-\infty, -3) \cup (3, 3) \cup (1, +\infty)$$

$$y = \frac{k^2 - 1}{k^2 + k - 4} \rightarrow \frac{k^2 - 1}{k^2 + k - 4} = \frac{k^2 - 1}{k^2 + k - 4} \rightarrow \frac{k^2 - 1}{k^2 + k - 4} = \frac{k^2 - 1}{k^2 + k - 4}$$

$$y = \sqrt{\frac{(k-1)(k^2-k-4)}{(k+1)(k^2+k-4)}} \rightarrow \frac{(k-1)(k^2-k-4)}{(k+1)(k^2+k-4)} \rightarrow \frac{(k-1)(k^2-k-4)}{(k+1)(k^2+k-4)}$$

$$y = \sqrt{[k] - 1} \rightarrow [k] - 1 \geq 0 \rightarrow [k] \geq 1 \rightarrow -[k] \geq -1 \rightarrow [k] \leq 1$$

$$y = \frac{\cos u + 1}{\sin u + 1} \rightarrow \cos u \neq 0, \sin u \neq 0 \rightarrow \frac{\cos u + 1}{\sin u + 1} = \frac{\cos u + 1}{\sin u + 1}$$

