

$$y = \sqrt{\frac{r_m + r}{n+b}} + a$$

$$D = (r, +\infty)$$

(r) 9

$$\frac{r_m + r}{n+b} + a = \frac{(r+a)n + r+ab}{n+b}$$

سپس با درج صورت
و مخرج داشته باشیم
و نامرئی کنیم صورت را به یک
آنچه r است r را مال مخرج می دهیم $n=r$

$$\frac{r+ab}{n+b} \rightarrow b=r$$

$$y = \sqrt{n^2 - n}$$

$$n^2 - n \geq 0$$

$$n(n-1) \geq 0 \rightarrow \frac{-1 \pm 1}{-1 \pm 1} +$$

$$D_f = [-1, 0] \cup [1, +\infty)$$

$$y = \frac{1}{\sqrt{|n| - 1}}$$

$$|n| - 1 > 0$$

$$|n| > 1$$

$$n > 1, n < -1$$

$$D_f = (-\infty, -1) \cup (1, +\infty)$$

(r) 10

$$\sqrt{\frac{1}{|n| - [n]}}$$

$$|n| \neq [n] \rightarrow D_f = \mathbb{R} - (\mathbb{Z}^+ \cup \{0\})$$

$$\sqrt{n} + \sqrt{y} = 9 \rightarrow n, y \geq 0$$

$$\sqrt{y} = 9 - \sqrt{n} \rightarrow 9 \geq \sqrt{n} \rightarrow 81 \geq n$$

$$D_f = [0, 81]$$

(r) 11

$$y = \frac{1}{\sqrt{[r_m - \frac{1}{r}] + [r_m + \frac{r}{r}]}}$$

$$[r_m - \frac{1}{r}] + [r_m + \frac{r}{r}] > 0$$

$$[r_m - \frac{1}{r}] + [r_m + r - \frac{1}{r}] > 0$$

$$2[r_m - \frac{1}{r}] > -r \rightarrow [r_m - \frac{1}{r}] > -\frac{r}{2}$$

$$r_m - \frac{1}{r} \geq 0 \rightarrow n \geq \frac{1}{r}$$

(r) 12

$$\sqrt{1 - \log(r_m - a)} \quad D = (b, c]$$

$$\begin{cases} r_m - a > 0 \rightarrow n > \frac{a}{r} \rightarrow b \\ 1 - \log(r_m - a) \geq 0 \rightarrow \log(r_m - a) \leq 1 \rightarrow r_m - a \leq 10 \end{cases}$$

$$n \leq \frac{10+a}{r}$$

$$\frac{10+a}{r} < c$$

$$c - b < \frac{10+a}{r} - \frac{a}{r} = \frac{10}{r}$$

(r) 10