

الف) $y = \frac{n+3}{n^2+3n^2-8n+3}$

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$y = \frac{\cot m + 1}{\tan m + 1}$
 ③ $\sin m + 1, \tan m + 1$
 $\cos m \neq -1$
 $D_f = \mathbb{R} - \left\{ \frac{k\pi}{r}, k\pi - \frac{\pi}{2} \right\}$

$y = \sqrt{1 - \sin m} \geq 0$
 $1 - \sin m \geq 0 \rightarrow \sin m \leq 1$
 $\frac{1}{2} \geq \sin m \rightarrow -\frac{1}{2} \leq \sin m \leq \frac{1}{2}$
 $D_f = \left[k\pi - \frac{\pi}{4}, k\pi + \frac{\pi}{4} \right]$

④ $y = \sqrt{r \sin m - 1} \geq 0 \rightarrow \sin m \geq \frac{1}{r}$
 $D_f = \left[r\pi + \frac{\pi}{2}, r\pi + \frac{3\pi}{2} \right]$
 $y = \sqrt{1 - r \cos m} \geq 0 \rightarrow \cos m \leq \frac{1}{r}$
 $D_f = \mathbb{R} - \left(k\pi - \frac{\pi}{r}, k\pi + \frac{\pi}{r} \right)$

⑤ $y = \alpha \sin(\alpha^2 r_{m+1})$
 $\alpha^2 + r_{m+1} \geq 0$
 $(\alpha^2 + r)(\alpha^2 + 1) \geq 0$
 $\frac{1}{\alpha^2 + 1} + \frac{1}{\alpha^2 + r} + \frac{1}{\alpha^2 + 1} \geq 0$
 $D_f = [-r, r] \cup [-1, 0]$

$y = \sqrt{a - r_m}$
 $-1 \leq a - r_m \leq 1$
 $\sqrt{a - r_m} \geq 0$
 $\infty - r_m \leq 1$
 $\sum \ll r_m \rightarrow r \ll m$
 $D_f = \left[\frac{r}{2}, \frac{5r}{2} \right]$

⑥ $y = \log_r(1 - \log_r^{\frac{1}{r}}) \rightarrow \log_r^{\frac{1}{r}} > 0$
 $1 > \log_r^{\frac{1}{r}} \rightarrow m < r$
 $\log_r^{\frac{1}{r}} > 0 \rightarrow 1 - \log_r^{\frac{1}{r}} > 0$
 $1 > \log_r^{\frac{1}{r}} \rightarrow \frac{1}{r} > 0$
 $D_f = \left[\frac{r}{2}, \frac{5r}{2} \right]$

⑦ $y = \frac{r_{m+1}}{r_{m+2}} \in \mathbb{W}$
 $D_f = \left[\frac{r}{2}, \frac{5r}{2} \right]$
 $y = \frac{r_{m+1}}{r_{m+2}} \rightarrow \frac{r_{m+1}}{r_{m+2}} \in \mathbb{W}$
 $D_f = \left[\frac{r}{2}, \frac{5r}{2} \right]$