

بازن عموری یادهم دفتر A

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$$y = \frac{R - f_1 R_0 a_1}{n^2 - 2n + 1 - R_0 a_1} \neq 0$$

$$n^2 - 2n + 1 - R_0 a_1 = n^2 - 2n + 1 - (n-2)(n-1)$$

$$= n^2 - 2n + 1 - (n^2 - 3n + 2) = n^2 - 2n + 1 - n^2 + 3n - 2 = n - 1$$

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$y = \frac{\cot m + 1}{\tan m + 1}$
 ملاحظة: $\frac{\sin m + 1}{\cos m + 1} = \tan m + 1$
 $\frac{\sin m + 1}{\cos m + 1} \neq 1$
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$D_f = \{ \frac{\pi}{2} - \frac{\pi}{2} \}$
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$y = \sqrt{1 - \sin^2 m} \geq 0$
 $1 - \sin^2 m \geq 0 \rightarrow \sin^2 m \leq 1$
 $\sin^2 m \leq 1 \rightarrow \sin m \in [-1, 1]$
 $D_f = [k\pi - \frac{\pi}{2}, k\pi + \frac{\pi}{2}]$

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$y = \sin(m + 1) \rightarrow -1 \leq \sin(m + 1) \leq 1$
 $D_f = [-\frac{\pi}{2}, \frac{\pi}{2}] \cup [\frac{3\pi}{2}, \frac{5\pi}{2}]$

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 $1 - \cos^2 m \geq 0 \rightarrow \cos^2 m \leq 1$
 $\cos^2 m \leq 1 \rightarrow \cos m \in [-1, 1]$
 $D_f = [k\pi, (k+1)\pi]$

$y = \log_2(1 - \log_2 m) > 0$
 $1 - \log_2 m > 0 \rightarrow \log_2 m < 1$
 $m < 2$
 $D_f = (0, 2)$
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$y = \frac{1}{x} \geq 0 \rightarrow x > 0$
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$$9 - \text{ب}) \quad y = \log_2 \left(1 - \log_2^n \frac{1}{2} \right) \rightarrow \log_2^n \frac{1}{2} \rightarrow n > 0.$$

$$\hookrightarrow 1 - \log_2^n \frac{1}{2} > 0 \rightarrow \log_2^n \frac{1}{2} < 1 \xrightarrow{\text{مناسب (أو 1)}} n > \frac{1}{2}$$

$$Df_2 \left(\frac{1}{2}, +\infty \right)$$