

$$\text{الف) } y = \frac{(n-2)}{2} \cdot \frac{(n-3)}{3} \cdot \frac{(n-4)}{4}$$

$$\frac{2}{-1} + \frac{3}{-1} - \frac{4}{-1} +$$

$$\text{ب) } y = \frac{(n-2)}{2} \cdot \frac{(n-3)}{3} \cdot \frac{(n-4)}{4}$$

$$\frac{2}{+1} - \frac{3}{-1} - \frac{4}{-1} +$$

$$\text{ج) } y = \frac{\frac{(n-2)}{2} \cdot \frac{(n-4)}{4}}{n-3} = \frac{2}{-1} + \frac{3}{0} - \frac{4}{-1} +$$

$$\text{د) } y = \frac{(n-2)(n-4)}{(n-3)^2} = \frac{2}{+1} - \frac{3}{0} - \frac{4}{-1} +$$

$$\text{هـ) } y = \frac{n^2 - 3n + 2}{n-2} \Rightarrow \frac{n^2 - 3n + 2}{n-2} < 1 \quad \frac{1}{-1} + \frac{2}{-1} - \frac{3}{0} +$$

$$\text{و) } y = \frac{\frac{1}{(n-1)} \cdot \frac{(n-2)}{2}}{\frac{(n-1)}{1} \cdot \frac{(n-4)}{2}} \Rightarrow \frac{1}{+1} + \frac{2}{+1} - \frac{2}{-1} +$$

$$\text{ز) } y = \frac{n^2 - n^2}{n^2 + n + 1} \cdot \frac{(n-1)(n+1)(n^2+1)}{n^2 + n + 1} \quad \frac{-1}{+1} - \frac{1}{-1} +$$

$$\text{ح) } y = \frac{n^2 + 3n + 2}{n^2 + 2n + 2} > 0$$

$$\frac{1+3-2}{1+2+2} = \frac{2}{5}$$

$$y^r = r m^r - 1$$

$$y_1^r = r m_1^r - 1 \xrightarrow{m_1 = m_2} y_1^r = y_2^r \Rightarrow y_1 = y_2 \text{ تابع هست}$$

(1)

$$y_1^r + y_2^r = r m_1^r - 1$$

$$y_1^r + y_2^r = r m_1^r - 1 \xrightarrow{m_1 = m_2} y_1^r = y_2^r \text{ تابع هست}$$

$$y(y_1, 1)$$

$$y_1^r + y_2^r = r m_1^r - 1$$

(2)

$$y = n^r - 1$$

$$y = n_1^r - 1 \xrightarrow{n_1 = n_2} y_1 = y_2 \text{ تابع هست}$$

$$y_1^r = n_1^r - 1$$

$$1) |y| + n y = n^r + 1 \Rightarrow |y| = n^r - n y + 1 \xrightarrow{n=0} |y| = 1 \quad y = \pm 1 \text{ تابع هست}$$

$$2) y^r + n^r = r m - 1 \Rightarrow y_1^r = -n_1^r + r m_1 - 1 \xrightarrow{m_1 = m_2} y_1^r = y_2^r \Rightarrow y_1 = y_2 \text{ تابع هست}$$

$$y_2^r = -n_2^r + r m_2 - 1$$

$$3) \sqrt[r]{y} + \sqrt[r]{n} = r \Rightarrow \sqrt[r]{y_1} = r - \sqrt[r]{n_1} \xrightarrow{n_1 = n_2} \sqrt[r]{y_1} = \sqrt[r]{y_2} \Rightarrow y_1 = y_2 \text{ تابع هست}$$

$$\sqrt[r]{y_2} = r - \sqrt[r]{n_2}$$

$$1) \tan \frac{\pi}{r} = \frac{\sin \frac{\pi}{r}}{\cos \frac{\pi}{r}} \quad -\frac{\sqrt{r}}{\frac{1}{r}} = -\sqrt{r}$$

(3)

$$2) \cot \frac{\sqrt{r}}{r} = \frac{\cos \frac{\sqrt{r}}{r}}{\sin \frac{\sqrt{r}}{r}} \quad -\frac{\sqrt{r}}{\frac{1}{r}} = \sqrt{r}$$

$$3) \tan r r. \quad \frac{\sin r r.}{\cos r r.} \quad -\frac{\frac{1}{r}}{\frac{1}{\sqrt{r}}} = \frac{1}{\sqrt{r}}$$

$$4) \cot 1 n. \quad \frac{\cos}{\sin} = -\frac{1}{2} \Rightarrow \text{نقطه مشخص}$$

$$1) \sin \alpha = \frac{1}{r} \quad r.^\circ = 15^\circ$$

(4)

$$2) \cos \alpha = \frac{\sqrt{r}}{r} \quad r.^\circ = 30^\circ$$

(4)

