

$$\left(\sqrt{n-4} \sqrt{n-4} + \sqrt{n+4} \sqrt{n-4} \right)^2$$

①

$$n-4\sqrt{n-4} + n+4\sqrt{n-4} - 2\sqrt{n^2-14(n-4)}$$

$$\rightarrow 2n - 2\sqrt{n^2-14(n-4)}$$

$$\xrightarrow{n \geq 1} \sqrt{2n+2|n-1|}$$

$$\rightarrow \sqrt{2n+2n-14}$$

$$\Rightarrow \sqrt{4n-14} = a+b\sqrt{n+c}$$

$$\rightarrow a=0 \quad b=2 \quad c=-4 \quad \rightarrow \frac{4}{-4} = (-1)$$

g(n) = 5x⁵ + 4x⁴ + 3x³ + 2x² + x

②

$$f \neq 0 \rightarrow n^2 - 4n + 3 \neq 0 \rightarrow (n-1)(n-3) \neq 0$$

$$\alpha(1,0) \neq (3,0) \quad \leftarrow \quad \begin{matrix} n \neq 1 & n \neq 3 \end{matrix}$$

$$g/f \rightarrow \{(2, -1) \neq (0, 4)\} \quad \left(\frac{4+3}{2} = 2 \right)$$

$$\text{الف) } \{(1, 2), (1, -1), (2, 2), (2, -1)\}$$

③

$$\text{ب) } \{(1, 2), (-1, 2), (\sqrt{3}, -1), (-\sqrt{3}, -1), (2, 2), (-2, 2)\}$$

$$\text{ج) } \{(-2, 9), (1, 4)\} \quad g \neq 0 \rightarrow n \neq -1$$

$$\{(2, 4), (-1, 1)\} \quad \text{MAHARAJA} \quad \{(1, -4), (4, -1)\}$$

$$2) a > 0 \rightarrow n = \frac{F}{V} = V_{\min} \rightarrow \sqrt{[-V_1 + \infty)}$$

$$y = F - A - 3 = (-V)_{\min} = (-0.9 + \infty)$$

$$3) g = 0 < 0 \rightarrow m = \frac{-4}{\pm 4} = V_{\max} \rightarrow \sqrt{(-\infty, 9]}$$

$$y \Rightarrow 9_{\max} = \sqrt{[0, 3]}$$

$$الف) \rightarrow n^{(3)} = \frac{R}{R} \rightarrow R \quad (4)$$

$$ب) \rightarrow n^{(1)} \rightarrow R_f = R$$

$$ج) \rightarrow n^{(2)} \rightarrow \frac{R}{R} \rightarrow [0, +\infty)$$

$$د) \rightarrow n^{(3)} \rightarrow R_f = R$$

$$هـ) R = \{3\} \quad (1)$$

$$و) R = \{4\}$$