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الف) $\sqrt{\frac{n-1}{n} - \frac{n}{n-1}} \Rightarrow \frac{(n-1)^2 - n^2}{n(n-1)} \geq 0$

$\Rightarrow D_f = (-\infty, 0) \cup [\frac{1}{2}, 1)$

ب) $\frac{1}{n+1} - \frac{2}{n}$

الف) $f(n) = \sqrt{(\frac{1}{n} - 9)(32 - \frac{n}{2})} \geq 0$

$\Rightarrow D_f = (-\infty, -\frac{1}{3}] \cup [\frac{64}{3}, +\infty)$

ب) $\sqrt[n]{n-1} + \sqrt[n]{n+1} = 2 \Rightarrow 2 - \sqrt[n]{n-1} \geq 0 \Rightarrow \sqrt[n]{n-1} \leq 2$

$I \cap II \Rightarrow D_f [1, 12]$

مخرج $\Rightarrow n \geq 1$ $n \leq -1 \leftarrow n^2 - 1 \geq 0$

مخرج $\Rightarrow n^2 - n - 2 > 0 \Rightarrow (n-2)(n+1) > 0$

$\Rightarrow (-\infty, -1) \cup (2, +\infty)$

الف) $\sqrt{3+an-n^2}$ است مقدار $[-2, 6]$

$3+an-n^2 \geq 0 \Rightarrow n^2 - an - 3 \leq 0 \rightarrow$ بين -2 و 6

$(n+3)(n-\frac{3}{2}) \Rightarrow -a = 2 - \frac{3}{2} = \frac{1}{2} \Rightarrow a = -\frac{1}{2}$

$g_n = \sqrt{f(n) - n}$

$fn - 2 = n \Rightarrow 2n = 2 \Rightarrow n = 1$

$2n + 3 = n \Rightarrow n = -3$

$D_f = [-3, +\infty)$

$$q + uv$$

$$b = a \Leftrightarrow a = b \Leftrightarrow a + 0 + 0 = b + 0 + 0$$

$$1 + w_1 - w_1 = w \times (9 + 0 \frac{w}{1} + w)$$

$$f f(\cdot) = 12/10 - 1 = 12/10 \div 10 = 98/100$$

$$k m = 1 \Rightarrow m = k/10 \quad 1 - m + 4 = 10 + 4 \rightarrow$$

$$f(0) = 1 - m = 1 - 9m = 1 - 19 + 2m = -18 + 2m$$

$$b) \lim_{n \rightarrow \infty} (1 + \frac{1}{n})^n = e$$

[illegible]

$$w_{\frac{1}{n}} + w_b = (w) \frac{1}{b} - (w-) \frac{1}{n}$$

$$w_2 f(w_1) = (w_2) f_1 - (w_1) f_2$$

$$\frac{1}{2} \times (u - u_1) = (u - f_m) - (u) f_1$$

$$\sqrt{r^2 + r^2} + \sqrt{r^2 - r^2} = \sqrt{q^2 + r^2}$$

$$f(r - \sqrt{r}) + f(r + \sqrt{r}) = \sqrt{r} + \frac{1}{\sqrt{r}} + r$$

$$1fa + 1k = ka - k = -1a = -1V \Rightarrow a = -1/V$$

$$v + \lambda - v_m = (1)(1 + \lambda) \lambda$$

$$a + (1-r)f\bar{z} = (a)f_1$$

$$\left. \begin{array}{l} w_a + v_m \\ (1+w)(1+v) \end{array} \right\} = (w)_f$$

$$1 \geq n$$

$1 < \infty$