

ا) $\frac{n+4}{4n^3-2n^2+4n-4} \rightarrow 4n^3-2n^2+4n-4=0 \rightarrow 2n^2(2n-1)-2n(2n-1)+2(2n-1)$
 $= (2n-1)(2n^2-2n+2)$
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$$\rightarrow (2n-1)=0 \rightarrow n=\frac{1}{2}$$

$$\rightarrow 2n-2=0 \rightarrow n=1$$

$$\rightarrow n-1=0 \rightarrow n=1$$

$$D = R - \left\{1, \frac{1}{2}, \frac{1}{2}\right\}$$

ب) $\frac{n+3}{3n^3-n^2-11n-5} = (n+1)(3n+2)(n-2)$

$$n+1=0 \rightarrow n=-1$$

$$3n+2=0 \rightarrow n=-\frac{2}{3}$$

$$n-2=0 \rightarrow n=2$$

$$D = R - \left\{-1, -\frac{2}{3}, 2\right\}$$

ا) $\frac{n+1}{n-\sqrt{3-2n}}$ $3-2n \geq 0$
 $n \leq \frac{3}{2}$

$$n - \sqrt{3-2n} \neq 0 \rightarrow n \neq \sqrt{3-2n} \rightarrow n^2 \neq 3-2n$$

$$n^2 + 2n - 3 = 0$$

$$(n-1)(n+3)=0$$

$$n = 1, -3$$

$$D = (-\infty, 1) \cup (1, \frac{3}{2}]$$

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$$ج) \frac{n+p}{n-\sqrt{p}n-p}$$

$$p n - p \geq 0$$

$$n \geq \frac{p}{p}$$

$$n - \sqrt{p}n - p \neq 0$$

$$n = \sqrt{p}n - p$$

$$n^p - p n + p = 0$$

$$(n-1)(n-p) = 0$$

$$n = 1, p$$

$$D = \left[\frac{p}{p}, 1\right) \cup (1, p) \cup (p, +\infty)$$

$$ا) \sqrt{\frac{n^p - p n + p}{n^p - 1}}$$

$$صورت = (n-1)(n-p)$$

$$-p$$

$$مخرج = (n-1)(n^p + n + 1)$$

$$\frac{(n-1)(n-p)}{(n-1)(n^p + n + 1)}$$

$$\frac{n-p}{n^p + n + 1} \geq 0 \rightarrow n \geq p$$

$$D = [p, +\infty)$$

$$ب) \sqrt[p]{\frac{n^p - p n + p}{n^p - 1}}$$

$$n^p - 1 \rightarrow (n-1)(n+1) \neq 0 \rightarrow n \neq 1, -1$$

$$\rightarrow D = \mathbb{R} - \{-1, 1\}$$

$$ا) = y = \log(n^p - p n)$$

$$n^p - p n > 0$$

$$-p$$

$$\frac{p(n-p)}{p} > 0$$

$$n < 0 \quad n > p$$

$$D = (-\infty, 0) \cup (p, +\infty)$$

$$ب) \log \frac{(14 - n^p)}{|n| - p}$$

$$14 - n^p > 0$$

$$n^p < 14 \rightarrow -p < n < p$$

$$|n| - p > 0 \rightarrow |n| > p$$

$$D = (-p, -p) \cup (-p, -p) \cup (p, p) \cup (p, p)$$

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$$2.) \log \frac{n^p - v n + 1^p}{10 - n}$$

$$10 - n > 0$$

$$n < 10$$

$$10 - n \neq 1$$

$$n \neq 9$$

$$\frac{n^p - v n + 1^p}{n - v} = \frac{(n - v)(n - f)}{(n - v)}$$

$$n - f > 0$$

$$n > f$$

$$D = (5, 9) \cup (9, 10)$$

$$3.) \sqrt{n^p - 11n + 4^p} + \log_n \sqrt{16 - n^p}$$

$$(n - f)(n - v) > 0$$

$$n \leq f \quad n \geq v$$

$$n \neq 1$$

$$\sqrt{16 - n^p} > 0$$

$$16 - n^p > 0$$

$$-4 < n < 4$$

$$D = (0, 1) \cup (1, 4]$$

$$y = \frac{n^p - n}{n^p + n}$$

$$= \frac{n(n-1)}{n(n+1)}$$

$$= \frac{n-1}{n+1}$$

$$\frac{n-1}{n+1} \geq 0$$

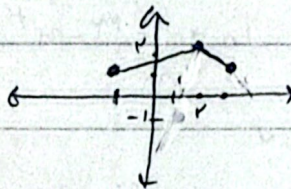
$n(n-1) +$	$+$	$-$	f
$n(n+1) +$	$-$	$+$	$+$
$+$	$-$	$+$	$+$

$$D = (-\infty, -1) \cup [1, +\infty)$$

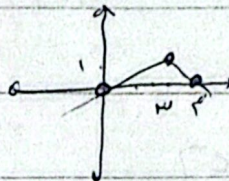
$$\frac{n-f(n)}{f(n)} \geq 0$$

$$D_f = [-1, 1] \cup [1, 3]$$

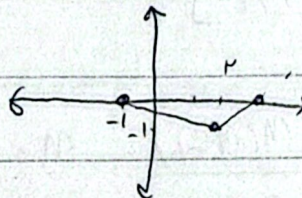
$$y = f(n) + 1$$



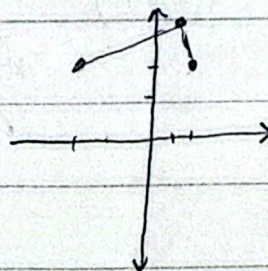
$$\Rightarrow y = f(n-1)$$



$$\Rightarrow y = -f(n)$$



$$\Rightarrow y = f(n+1) + 1$$



$$f(n) = \sqrt{n^p - n}$$

$$\rightarrow n^p - n \geq 0 \rightarrow n(n^{p-1} - 1) \geq 0$$

$$g(n) = \sqrt{n} \sqrt{n^{p-1} - 1}$$

$$n > 0, n^{p-1} - 1 \geq 0$$

$$n^{p-1} \geq 1$$

$$n \leq -\sqrt{p-1} \text{ or } n \geq \sqrt{p-1}$$

$$n = \pm \sqrt{p-1}$$

$$- \sqrt{p-1} \leq n \leq \sqrt{p-1}$$

$$D_f = [-\sqrt{p-1}, 0] \cup [\sqrt{p-1}, +\infty)$$

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$$D_g = [\sqrt{p-1}, +\infty) \quad [f \neq g]$$

