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$x^2 - 5x + 7$ $(x-2)(x-3) \quad n=2$ $(-\infty, 2) \cup (3, \infty)$	$(x-1)(x-5)$ $n=1$ $1 < x < 5$ $(x+1)(x+5) \geq 0$ $[-5, -1] \cup [1, 5]$ $(x-1)(x-5) \geq 0$ $[-5, -1] \cup [1, 5]$ $(x-1)(x-5) \geq 0$ $[-5, -1] \cup [1, 5]$
$(x-1)(x-2) < 0$ $(-\infty, 1) \cup (2, \infty)$	$(x-1)(x+1) \geq 0$ $(-\infty, -1] \cup [1, \infty)$
$(x-1)(x^2 + x + 1) \geq 0$ $(x-1)(x^2 + x + 1) \geq 0$ $(-\infty, -1) \cup (0, 1) \cup (1, \infty)$	$(x-1)(x+1) = \frac{x^2 - 1}{x - 1} \geq 0$ $(-\infty, -1) \cup (1, \infty)$
$x - 2 \geq 0$ $x \leq 2$ $x - \sqrt{x} - 2 \geq 0$ $\sqrt{x} - 2 \leq 2$ $x - 2 \leq 4$ $x \geq -4$ $D = [-4, 2]$	$x - 2 > 0$ $x \geq 2$ $x - \sqrt{x} - 2 \geq 0$ $\sqrt{x} - 2 \leq 2$ $x - 2 \leq 4$ $x \leq 11$ $D = [2, 11]$

$\begin{aligned} & n-r \geq a \\ & n \leq r \\ &n \leq r \end{aligned}$ $D = [-\sqrt{r}, \sqrt{r}]$	$\begin{aligned} & n-r \geq a \\ & n \geq r \\ &n \geq r \end{aligned}$ $D = (-\infty -r] \cup [r + \infty)$	6
$\begin{aligned} & n-r \neq a \\ & n \neq r \end{aligned}$ $D = R \setminus [-r, r]$ $D = (-\infty -r) \cup (-r, r) \cup (r, \infty)$	$\begin{aligned} &\sqrt{n-r} \neq a \\ &\sqrt{n} \neq r \\ &n \neq r \end{aligned}$ $D = (0, r) \cup (r, \infty)$	7
$\begin{aligned} & \cos n \neq 0 \\ &9 \leq n \neq \frac{1}{p} \\ &\cos n = \frac{1}{p} \end{aligned}$ $D = R \setminus \left\{ \frac{2k\pi}{p} : k \in \mathbb{Z} \right\}$	$\begin{aligned} &n \neq \frac{2k\pi}{p} \\ &n \neq \frac{2k\pi}{p} + 2k\pi \end{aligned}$ $D = R \setminus \left\{ \frac{2k\pi}{p} : k \in \mathbb{Z} \right\} \cup \left\{ \frac{2k\pi}{p} + 2k\pi : k \in \mathbb{Z} \right\}$	8
$\begin{aligned} & n-r - \frac{1}{p} > 0 \\ & n-r > \frac{1}{p} \\ &n > \frac{1}{p} \end{aligned}$ $D = (-\infty -\frac{1}{p}) \cup (\frac{1}{p}, \infty)$		
$\begin{aligned} & n-r \geq 0 \\ & n \leq r \\ & n \leq r \end{aligned}$ $D = [-r, r]$	$\begin{aligned} & n \neq 0 \\ &n \neq 0 \end{aligned}$ $D = R \setminus \{0\}$ $D = (-\infty 0) \cup (0 \infty)$	10