

Subject

Date

$$|x-2| > 0 \sim |x-2| > 1$$

$$x-2 > 1 \cup x-2 < -1$$

$$x > 3 \cup x < -1 \quad D_f = (-\infty, -1] \cup [3, +\infty)$$

$$f - |x-2| > 0 \quad |x-2| < f$$

$$|x-2| = |x-2|$$

$$-f \leq x-2 \leq f \rightarrow -1 \leq x \leq 4 \quad D_f = [-1, 4]$$

$$|x| > 0 \sim |x| < 1$$

$$x > 0 \sim x < 1 \sim 0 < x < 1$$

$$x < 0 \sim x < -1 \sim x < -1$$

$$(x < 0) \rightarrow D_f = (-\infty, 0]$$

$$x - |x-1| > 0$$

$$|x-1| < x$$

$$\sqrt{x-1} - 1 \neq 0$$

$$x-1 \neq 1 \quad x \neq 2$$

$$D_f = [2, 1] - \{2, 2\}$$

$$\cos x \neq 0$$

$$D_f = \mathbb{R} - \left\{ k\pi + \frac{\pi}{2} \mid k \in \mathbb{Z} \right\}$$

$$x \cos x - 1 \neq 0 \rightarrow \cos x \neq \frac{1}{x}$$

$$\cos x = \cos \frac{\pi}{x} \rightarrow x = \frac{\pi}{k\pi} \in \frac{\pi}{\mathbb{Z}}$$

$$D_f = \mathbb{R} - \left[\frac{\pi}{k\pi} \pm \frac{\pi}{\mathbb{Z}} \mid k \in \mathbb{Z} \right]$$

$$|x+1| - |x+3| \neq 0 \quad |x+1| \neq |x+3|$$

$$(x+1)^2 \neq (x+3)^2$$

$$(x+1-x-3)(x+1+x+3) \neq 0$$

$$(x-1)(x+4) \neq 0 \quad x \neq 1$$

$$D_f = \mathbb{R} - \left\{ -\frac{5}{2}, 1 \right\}$$

NOTEBOOK

$$a - \gamma = 0 \quad a = \gamma$$

$a - 1 = 0 \quad a = 1$
 $(x + b)_{x=0} = 1 \quad x = -b \quad b = -1$

$$\Delta = b^2 - 4ac < 0$$

$$r^* - f(1)(r^* - m^*) \leq 0$$

$$r - \Lambda + r_m^u \leq 0 \Rightarrow r_m^l - r \leq 0$$

$$F - \pi^2 \rangle_0 \sim \pi^2 \langle F \sim -\gamma \langle \pi$$

{-2, -1, 0, 1, 2}

$$[x]_+ + [-x]_+ = \begin{cases} 0 & x \in \mathbb{Z} \\ -1 & x \notin \mathbb{Z} \end{cases} \sim [x]_+ + [-x]_+ \Big|_{\mathbb{Z}} = 0 + 1 = 1$$

$$\text{مخرج} = -1 + 1 = 0$$

$$[-2, 2], \mathcal{Z}_{\text{ier}} \sim \rho_f = [-2, -1, 0, 1, 2] \quad (\text{red})$$

$$n^{\mu} + \mu n^{\nu} \rangle, 0 \quad n^{\nu}(x + \mu) \rangle, 0 \quad n^{\nu} \rangle, 0$$

$$n + \frac{1}{2}, 0 \sim n, -\frac{1}{2}$$

$P_f = [-1, +\infty)$ جواب

$$(n-1)(n+1) \cdot n^2(n-1) \geq 0$$

$$(n-1)(n^2+n+1)$$

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$$|2x+1| - |x+3| > 0$$

$$|2x+1| > |x+3|$$

$$(2x+1)^2 - (x+3)^2 > 0$$

$$(x-2)(3x+4) > 0 \quad x=1 \quad x=-\frac{4}{3}$$

$$D_f = (-\infty, -\frac{4}{3}] \cup [2, +\infty)$$

$$2x-1 > 0 \Rightarrow 2x > 1 \Rightarrow x > \frac{1}{2}$$

$$\log_a(2x-1) > 0 \quad 2x-1 > 1 \quad 2x > 2 \quad x > 1$$

$$\log_a(\log_a(2x-1)) > 0 \quad 0 < \log_a(2x-1) < 1$$

$$2x-1 < a \quad 2x < 4 \quad x < 2 \quad D_f = (1, 2)$$

$$\cos(2x+1) > 0 \Rightarrow \cos x > -\frac{1}{2}$$

$$\cos x = -\frac{1}{2} \Rightarrow [0, 2\pi) \rightarrow \frac{2\pi}{3}, \frac{4\pi}{3}, -$$

$$D_f = k\pi \in (k\pi - \frac{2\pi}{3}, k\pi + \frac{2\pi}{3})$$

$$\frac{x-1}{x+1} > 0 \quad x \in (-\infty, -1) \cup (1, +\infty)$$

$$\log\left(\frac{x-1}{x+1}\right) > 0 \Rightarrow \frac{x-1}{x+1} > 1$$

$$\frac{x-1}{x+1} - 1 > 0 \Rightarrow \frac{x-1-(x+1)}{x+1} > 0$$

$$x+1 < 0 \Rightarrow x < -1 \quad D_f = (-\infty, -1)$$