

$$x^r - (x+1) = 0 \quad | \quad x-1 = 0$$

$$x^r - 1 = 0 \quad | \quad x-1 = 0$$

$$0 = R - \{ \frac{1}{2}, \frac{1}{3}, \dots, \frac{1}{r} \}$$

$$|x+1| - |x+1| = 0 \quad | \quad (x+1) \neq 0 \quad | \quad (x+1)^r = 0$$

$$x^r + 1 + x^r = x^r + 1 + x^r \rightarrow x^r - x^r - 1 = 0$$

$$x = \frac{1}{2}, \frac{1}{3}, \dots, \frac{1}{r} \leftarrow (x-1)(x+1) = 0$$

$$0 = R - \{ \frac{1}{2}, \frac{1}{3}, \dots, \frac{1}{r} \}$$

$$1 - (x+1) - (x+1) = 0 \quad | \quad (x+1) \neq 0 \quad | \quad (x+1)^r = 0$$

$$x^r + 1 + x^r = x^r + 1 + x^r \rightarrow x^r - x^r - 1 = 0$$

$$\frac{-x}{1} + \frac{1}{1} = \left(-\frac{x}{1} + \frac{1}{1} \right) \cup \left(\frac{1}{1} + \frac{x}{1} \right)$$

$$1 - \log x > 0 \quad | \quad -\log x > -1$$

$$\log x < 1 \quad | \quad x < e$$

$$1 - \log x > 0 \quad | \quad -\log x > -1 \quad | \quad \log x < 1 \quad | \quad x < e$$

$$(x-1) > 0 \quad | \quad x > 1$$

$$\log(x-1) > 0 \quad | \quad x-1 > 1 \quad | \quad x > 2$$

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$$(1, 2) \cup (2, \infty)$$

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Subject:

Year:

Month:

Date:

()

حل) $\sqrt{\cos(x) + 1} > 0$

(✓)

$\sqrt{\cos(x)} > -1 \quad \cos(x) > -\frac{1}{4}$

$(\frac{5\pi}{4}, \frac{7\pi}{4})$ $\frac{2\pi}{4}$ $\frac{1\pi}{4}$

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

$a + 4 = 0$

(1)

$a = -4$

$4 \leftarrow$

$-4x + b = 0$

$5 \leftarrow$

(4)

$b = 4$

$b = 4$

المطلوب: $f(x) = \sqrt{2x+2}$ (4)

$f(x) = \sqrt{2x+2}$

$2x+2 \geq 0$

$x \geq -1$

$2x \geq -2$

$2 > 1 > 0 > -1 > -2$

$2 - 2 \geq 0$

$x \leq 2$ $-2 \leq x \leq 2$

(10)

$[2] + [-2] = -1$ $[x] + [-x] + 1 = 0$

PAPCO

$x \notin \mathbb{Z}$

-2 0 2