

حل المسألة

المسألة

1) $x^2 + 1 - 2x - x^2 = -2x + 1$
 $x(x-1) \rightarrow x = [0, 1]$

2) $x - \{0, 1, -1, 1\}$
 $x+1=0 \rightarrow x=-1$
 $x+1=0 \rightarrow x=-1$ و $x-1=0 \rightarrow x=1$

3) $x^2 - x - x^2 \geq 0$ $x^2 \geq x^2$ $-x \geq x$ $[x \leq -x]$

$x^2 - x \geq 0$ $x^2 \geq x$ $x \leq x$ $[x \leq x]$

$x^2 + 1 = 0$ $x^2 = -1$ $y+1=0$ $y = -1$ $y+1=1$

$x-1=1$ $x=2$ $y+1=0$ $y = -1$ $y+1=1$

4) $x^2 - x - x^2 \geq 0$ $x^2 - x - x^2 \geq 0$ $x^2 - x - x^2 \geq 0$

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$$f(a+1)(u) = -3 + f(a) + a$$

$$13a + 18 = 3a - 3 \quad 10a = -1 \quad a = -\frac{1}{10}$$

$$\sqrt{x-\sqrt{x}} + \sqrt{x+\sqrt{x}} + 1, \quad 1 + \sqrt{x-\sqrt{x}} + \sqrt{x+\sqrt{x}} =$$

$$\sqrt{x-\sqrt{x}} + \sqrt{x+\sqrt{x}} \quad 1 + 1(\sqrt{x-\sqrt{x}} + \sqrt{x+\sqrt{x}})$$

$$x \leftarrow 1 \quad f(x) = 1^x f(x-1) = x^x \quad x^x \leftarrow 1^x f(x-1) = x^x f(x) = 3x^x + x$$

$$-a f(x) = 10x^x + x \quad f(x) = \frac{10x^x + x}{-a}$$

$$x = -1 \quad 4 f(x) = 3m + 10 \quad 4 f(x) = 3m + 10 \quad x = 0 \quad x^x f(x) = x^m - 1 \quad f(x) = 9m - 1$$

$$9m - 1 = 3m + 10 \quad 6m = 11 \quad m = \frac{11}{6} \quad 1^x f(x) = 1^x (3 + 10) = 1$$

$$f(x) = 9, 10$$

$$ax + b$$

$$① f(x) + f\left(\frac{1}{x}\right) = \frac{x^x - 1^x x + 1^x}{x} \quad (1)$$

$$② ax + b + b + \frac{a}{x} = \frac{x^x - 1^x x + 1^x}{x}$$

$$③ \frac{ax^x + 1^x x + a}{x} = \frac{x^x - 1^x x + 1^x}{x} \quad a = 1^x \quad b = -1$$

$$f(-1) = -1 - 1 = -2 \quad \text{PASARGAD} \quad f(x) = ax + b \quad f(x) = 1^x x - 1$$