

تایید شده است

تابع هست $\rightarrow \cos y = y \rightarrow \cos y = y \rightarrow \checkmark$
چون ضرب عددی در صفر صفر است

تابع هست $\checkmark \rightarrow x + y = 2\sqrt{xy} \rightarrow x - 2\sqrt{xy} + y = 0 \rightarrow (\sqrt{x} - \sqrt{y})^2 = 0 \rightarrow \sqrt{x} = \sqrt{y} \rightarrow x = y$

همیشه مثبت $\rightarrow x^2 + y^2 - 2xy = 0 \rightarrow x(y^2 + 2) - y(y^2 + 2) = 0 \rightarrow (y^2 + 2)(x - y) = 0 \rightarrow x = y$ تابع هست $\checkmark$

تابع هست $\rightarrow y_1 + x_1^2 = 2y_1 \rightarrow 2y_1 - 1y_1 = 2y_2 - 1y_2 \rightarrow y_1 - 1y_1 = 2y_2 - 1y_2 \rightarrow y_1 - y_1 = 2y_2 - 1y_2 \rightarrow 0 = y_2 \rightarrow y_1 = y_2$
تابع هست $\rightarrow [y] + [x] = 1 \rightarrow x = 0 \rightarrow [y] = 1 \rightarrow y = (1, 2) \rightarrow x = 0$ تابع نیست

$\left. \begin{array}{l} x^2 - b \geq 3 \\ x^2 - b \leq -1 \\ a + 2x \end{array} \right\} x = 3 \rightarrow 18 - b = a + 6 \rightarrow a + b = 12$

غیر صحیح $b = 0$
 $-x^2 - bx + a \geq 0 \rightarrow x = a \rightarrow -a^2 - ba + a = 0 \rightarrow -4b^2 - 2b^3 + 2b^2 = 0 \rightarrow 2b^2(2b^2 + b - 1) = 0$
 $x = b \rightarrow -b^2 - b^2 + a = 0 \rightarrow a = 2b^2$
 $b = -1 \rightarrow a = 2 \rightarrow -x^2 + x + 2 \geq 0$
 $b = \frac{1}{2} \rightarrow -x^2 - \frac{1}{2}x + \frac{1}{2} \geq 0$
 $a = \frac{1}{4}$
 $a + b = 1$

$$ax^2 + bx + c > 0 \rightarrow x = r \xrightarrow{y^+} 4a + 4b + c = 0$$

$$4a + c - 4|b| = \frac{4a + c + 4b}{1} = 0$$

$$(-\infty, r) \rightarrow a = \frac{1}{4} \text{ من أجل } \frac{1}{4} \rightarrow bx + c > 0 \rightarrow 4b + c = 0 \rightarrow 4b = -c \rightarrow 4b = c$$

$$\rightarrow b < 0 \rightarrow c > 0$$

$$\frac{4x + 4 + ax + ab}{x + b} > 0 \rightarrow b = -r \rightarrow \frac{4x + 4 + ax - 4a}{x - r} > 0 \rightarrow a = \frac{4}{r} \text{ من أجل } x \rightarrow$$

$$b = -r$$

$$r + c = \frac{4}{x - r} > 0 \rightarrow \frac{r}{-r + 4} +$$

$$\text{الـ ١) } x^2 - x > 0 \rightarrow x(x^2 - 1) > 0 \rightarrow \frac{-1}{-1 + 1} \cdot \frac{1}{-1 + 1} \rightarrow D_f = [-1, 0] \cup [1, +\infty)$$

$$\text{ب) } \sqrt{|x| - 1} \rightarrow |x| - 1 > 0 \rightarrow |x| > 1 \rightarrow x > 1 \text{ (} -\infty, -1) \cup (1, +\infty) = D_f$$

$$x < -1$$

$$\text{الـ ٢) } |x| - [x] \neq 0 \rightarrow |x| \neq [x] \rightarrow \text{مثال } \checkmark \quad D_f = \mathbb{R} - [0, +\infty)$$

$$\text{ب) } \sqrt{x} + \sqrt{y} = 9 \rightarrow D_f = \{0, 1, 4, 9, 16, 25, 36, 49, 64, 81\}$$

$$x = 1 \quad y = 9 \quad x = 16 \quad y = 25 \quad x = 36 \quad y = 49$$

$$x = 4 \quad y = 4 \quad x = 25 \quad y = 16 \quad x = 64 \quad y = 1$$

$$x = 9 \quad y = 36 \quad x = 49 \quad y = 9 \quad x = 81 \quad y = 0$$

$$x = 0, m \quad y = 81$$

$$\lfloor \lfloor x - \frac{1}{p} \rfloor + \lfloor \lfloor x + \frac{q}{p} \rfloor \rfloor > \dots, \lfloor \lfloor x + \frac{1}{p} - 1 \rfloor + \lfloor \lfloor x + \frac{1}{p} + 1 \rfloor \rfloor > \dots, \lfloor \lfloor x + \frac{1}{p} \rfloor - 1 \rfloor > \dots$$

$$\lfloor \lfloor x + \frac{1}{p} \rfloor \rfloor > \dots, \lfloor \lfloor x + \frac{1}{p} \rfloor \rfloor > \dots$$

$$1 < \lfloor x + \frac{1}{p} \rfloor \rightarrow \frac{1}{p} < \lfloor x \rfloor \rightarrow \frac{1}{p} < x$$

$$D \neq \lfloor \frac{1}{p}, +\infty \rfloor$$

$$\lfloor x \rfloor > a \rightarrow x > \frac{a}{p}$$

$$\lfloor x - a \rfloor > \dots, \frac{a}{p} < \lfloor x - a \rfloor < 1 + \frac{a}{p}$$

$$a - b = a$$

$$1 - \log \lfloor x - a \rfloor > \dots, 1 > \log \lfloor x - a \rfloor \rightarrow 1 > \lfloor x - a \rfloor \rightarrow 1 + a > \lfloor x \rfloor \rightarrow 1 + \frac{a}{p} > x$$