

$$-[\sqrt{x}] + [\sqrt{x}] = 0 \quad x \geq 0$$

۲ تابع مساوی اند

$$x \geq 0 \Rightarrow \sqrt{0} = 0$$

$$x < 0 \Rightarrow \sqrt{x} \quad \text{فوق و}$$

$$\frac{f+g}{f-g} = \left\{ \left(1, \frac{1}{1}\right) \left(2, \frac{4}{2}\right) \left(3, \frac{4}{-1}\right) \left(0, \frac{1}{-1}\right) \right\}$$

$$\left\{ (1, 1) \left(3, -\frac{1}{1}\right) (0, -1) \right\}$$

الف) ۳

$$x \cdot 1 = 0 \quad \text{ج) } x = 0 \quad \text{ب) } x = 1$$

$$\text{الف) } 3x - 1 = -1 \Rightarrow x = 0 \quad 3x - 1 = -\frac{1}{3} \Rightarrow x = \frac{2}{3}$$

$$3x - 1 = 0 \Rightarrow x = \frac{1}{3}$$

$$3x - 1 = 2 \Rightarrow x = 1$$

$$3x - 1 = 3 \Rightarrow$$

$$x = \frac{4}{3}$$

$$g(x) = \left\{ (1, 1) \left(\frac{1}{3}, 0\right) (0, 1) \left(-\frac{1}{3}, 1\right) \left(\frac{4}{3}, -1\right) \right\}$$

$$\text{ب) } h(x) = \left\{ (1, 1) (-1, 1) (0, 0) (-1, -1) (1, -1) \right\}$$

$$\left(a + \frac{1}{a}\right)^r = a^r + \frac{1}{a^r} + r = \gamma \quad (1)$$

$$a + \frac{1}{a} = \sqrt{a^r + \frac{1}{a^r} + r}$$

$$r + \sqrt{x} + \frac{1}{\sqrt{x}} = \sqrt{x + \frac{1}{x} + r} + r$$

~~$$r + \sqrt{r} + \frac{1}{\sqrt{r}} = \sqrt{r + \frac{1}{r} + r} + r$$~~

$$r + \sqrt{r} = \frac{1}{r - \sqrt{r}} \quad r - r = 1$$

$$P(n) + P\left(\frac{1}{n}\right) = r P(n)$$

$$r \sqrt{r + \sqrt{r} + \frac{1}{r + \sqrt{r}}} + r + e = r \sqrt{\frac{r + r + r\sqrt{r} + 1}{r + \sqrt{r}}} + r + e$$

$$\frac{1 + r\sqrt{r}}{r + \sqrt{r}} + r = \frac{1r + r\sqrt{r}}{r + \sqrt{r}} = 4 \Rightarrow \boxed{r\sqrt{4} + e}$$