

۲. آفرین

لرزان سید دهم رفعت ۱۳

$$(1! + 2! + 3! + \dots + 25!) (2! + 4! + 6! + \dots + 46!) \quad (1)$$

از این ۲۵ بعد ۲۵ = ۱۰ داریم
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$$1! = 1 \quad 2! = 2 \times 1 = 2$$

$$3! = 3 \times 2 \times 1 = 6 \quad 4! = 4 \times 3 \times 2 \times 1 = 24$$

$$9 \times 7 = \{ 2 \} \rightarrow \boxed{14}$$

$$\underline{14}$$

$$\sqrt{(2+\sqrt{7})-1} \sqrt{1+\sqrt{7}} = (2+\sqrt{7})^{-\frac{1}{2}} \times (1+\sqrt{7})^{\frac{1}{2}}$$

$$\sqrt{\frac{(1+\sqrt{7})^2}{2+\sqrt{7}}} = \sqrt{\frac{2(2+\sqrt{7})}{2+\sqrt{7}}} = \sqrt{2}$$

$$\frac{(\sqrt{2}+\sqrt{5})}{\sqrt{10+2}} (\sqrt{3-\sqrt{5}} - \sqrt{3+\sqrt{5}})$$

$$\frac{\sqrt{2}+\sqrt{5}}{\sqrt{10+2}} \times \frac{\sqrt{10-2}}{\sqrt{10-2}} = \frac{\sqrt{2}}{2} \rightarrow (\sqrt{3-\sqrt{5}} - \sqrt{3+\sqrt{5}}) \times \frac{\sqrt{2}}{2}$$

$$\sqrt{9-3\sqrt{5}} - \sqrt{9+3\sqrt{5}}$$

$$\sqrt{(2\sqrt{5}-1)^2} = \sqrt{(2\sqrt{5}+1)^2} = \frac{-2}{2} = -1$$

جمع خالص فروش روزانه

جمع پرداخت روزانه

2.)

(10)

$$\frac{\sqrt{1} + \sqrt{2}}{2 - \sqrt{2}} = (\sqrt{2} - 1)^{-1}$$

$$\frac{\sqrt{1} + \sqrt{2}}{2 - \sqrt{2}} \times \frac{2 + \sqrt{2}}{2 + \sqrt{2}} = \frac{19(\sqrt{2} + \sqrt{2})}{19} = \boxed{\sqrt{2} + \sqrt{2}}$$

$$-2 \times \frac{1}{\sqrt{2} - 1} = -2 \times \frac{1}{\sqrt{2} - 1} \times \frac{\sqrt{2} + 1}{\sqrt{2} + 1} = \boxed{\frac{-2(\sqrt{2} + 1)}{1} = -2\sqrt{2} - 2}$$

$$\frac{-2(\sqrt{2} + 1)}{1} = -2\sqrt{2} - 2$$

$$\Rightarrow \sqrt{2} + \sqrt{2} - 2\sqrt{2} - 2 = \boxed{-2}$$

$$\Rightarrow \frac{\sqrt{2} - 1}{2 + \sqrt{2}} + (\sqrt{2} - 1)^{-1} = \frac{\sqrt{2} - 1}{2 + \sqrt{2}} + \frac{1}{\sqrt{2} - 1}$$

$$\Rightarrow \frac{(\sqrt{2} - 1)(\sqrt{2} - 1) + 2 + \sqrt{2}}{(2 + \sqrt{2})(\sqrt{2} - 1)} = \frac{-\sqrt{2} + 1 + \sqrt{2}}{2 - 2\sqrt{2}}$$

$$\frac{-\sqrt{2} + 1 + \sqrt{2}}{2 - 2\sqrt{2}} \times \frac{2 + 2\sqrt{2}}{2 + 2\sqrt{2}} = \frac{1 + 2\sqrt{2}}{1 - 2\sqrt{2}} = \boxed{1 + 2\sqrt{2}}$$

$$\Rightarrow \boxed{1 + 2\sqrt{2}}$$



$$= \frac{\sqrt{2(\sqrt{4}+2)}}{\sqrt{4}-2} \xrightarrow{\text{L.H.S.}} \frac{\sqrt{2(\sqrt{4}+2)}}{\sqrt{4}-2} \times \frac{\sqrt{4+2}}{\sqrt{4+2}} = \frac{10+5\sqrt{2}}{1} \rightarrow \sqrt{(4+2)} = \sqrt{4+2}$$

(2)



جمع پرداخت روزانه $2\sqrt{2}$ جمع خالص فروش روزانه $t = 19$ $\rightarrow \frac{19(2\sqrt{2})}{2-\sqrt{2}}$

جمع پرداخت روزانه .

$$a = \sqrt{(r - \sqrt{r})^2} \Rightarrow a = \sqrt{r - \sqrt{r}} \rightarrow \left(a + \frac{1}{a} + \sqrt{r}\right)^2 \quad (\checkmark)$$

$$x \left(a + \frac{1}{a} - \sqrt{r} \right)^r$$

مضروب $\Rightarrow \left((a + \frac{1}{a})^2 - (r\sqrt{r})^2 \right)^2 \rightarrow (r - \sqrt{r} + \frac{1}{r - \sqrt{r}})^2 = \xi^2 = r^2 \xi$

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

$\frac{r - \sqrt{r}}{r + \sqrt{r}}$ ✓

$r\xi = r^2 t$
 $t = \xi$

$$A = \sqrt{\frac{\sum \sqrt{r} + \sum r}{F}} \quad (1)$$

$$\sqrt{10} \times \sqrt{\frac{10}{10}} = \sqrt{\frac{10}{10}} + \sqrt{\frac{10}{10}} = \sqrt{10} = \sqrt{10}$$

$$(rA)^{-\frac{1}{r}} = (r^q)^{-\frac{1}{r}} = r^{-\frac{1}{r}} = \frac{1}{r}$$

$$\frac{1}{a} - \mu = \frac{q}{\sqrt{\mu}} - \mu = q - \frac{\mu \sqrt{\mu}}{\sqrt{\mu}} = q - \mu \quad \text{at } v = \mu \times a^{\frac{1}{\mu}} \quad \text{⑨}$$

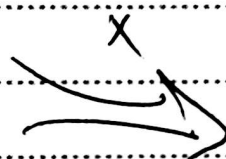
$$\frac{q_n \sqrt{q_n - q_{n-1}}}{\sqrt{q_n + 1}} \quad x \frac{\sqrt{q_n - 1}}{\sqrt{q_n - 1}} = \cancel{q_n} \sqrt{q_n}$$

$$a = \frac{1}{r} = \frac{v^2}{r} \leftarrow \sqrt{v^2}$$

(10)

$$\sqrt{n+a} - \sqrt{n-\varepsilon} = r$$

$$\sqrt{n+a} + \sqrt{n-\varepsilon} = A+r$$



$$(n+a) - (n-\varepsilon) = rA + \varepsilon$$

$$a + \varepsilon = rA + \varepsilon$$

$$A = \frac{a}{r}$$