

تقریباً $(11 + 10 + 9 + \dots + 2 + 1) \times 2 = 110$ و $(2k!) (2k+1!)$

$1! = 1$
 $3! = 6$
 $2! = 2$
 $4! = 24$

$2 \times 11 \times 2$

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

1/1

$$A = \left[\frac{\sqrt{2} + \sqrt{5}}{\sqrt{10} + 2} \right] \left(\sqrt{3-\sqrt{5}} - \sqrt{3+\sqrt{5}} \right)$$

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

$$A^2 = 3 - \sqrt{5} + 3 + \sqrt{5} - 2\sqrt{9-5} = 9 - 2\sqrt{4} = 9 - 4 = 5$$

$b^2 = 1$
 $b = \sqrt{2} \times \sqrt{2} = 2$

$$\frac{\sqrt{1} + \sqrt{2}}{2 - \sqrt{2}} - 2(\sqrt{9-1})$$

0/1

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

$$\frac{\sqrt{1+\sqrt{2}} + \sqrt{3-2}}{\sqrt{3-2}}$$

1/1

$$(\sqrt{2} + \sqrt{2})^2 = 2\sqrt{2} + 2\sqrt{2} = 4\sqrt{2} \Rightarrow \frac{2\sqrt{2} + 2\sqrt{2}}{\sqrt{2} - \sqrt{2}} \times \frac{\sqrt{2} + \sqrt{2}}{\sqrt{2} + \sqrt{2}}$$

$$\sqrt{2}(\sqrt{2} + \sqrt{2})$$

$$\frac{\begin{matrix} x & x p_1 & x p_2 & x p_3 & x p_4 & x p_5 & x p_6 \\ p & p & p & p & p & p & p \end{matrix}}{\begin{matrix} p^{x-1} & p^{x-1} & p^{x-1} & p^{x-1} & p^{x-1} & p^{x-1} & p^{x-1} \\ p & p & p & p & p & p & p \end{matrix}} = \frac{4x p^{10}}{4x p^3} = 27 \quad (10 \text{ off})$$

~~$$\begin{aligned} 4x + 10 - 4x - 10 &= 1 \times 1 \\ 0 &= 1 \end{aligned}$$~~

$$10: (a^r - b^r)^r (a^r + b^r)^r = t(r - \sqrt{3}) \quad (7 \text{ d.b.})$$

$$(a^x - b^x)^x = a^x \cdot b^x - x a^{x-1} b^x = (\sqrt{x} - x)^x \cdot (\sqrt{x} + x)^x - x(\sqrt{x} + x)(\sqrt{x} - x)$$

$$4 + r - r\sqrt{4} + 4 + r + r\sqrt{4} - r \Rightarrow 10 = t(r - \sqrt{r}) \Rightarrow t = \frac{10}{r - \sqrt{r}}$$

$$a_s \sqrt{V - r\sqrt{r}} \leq \sqrt{(r - \sqrt{r})^2} \quad (7 \text{ سوال})$$

~~$$\left(\sqrt{2-\sqrt{3}} + \frac{1}{\sqrt{2-\sqrt{3}}} + \sqrt{2} \right) \left(\sqrt{2-\sqrt{3}} + \frac{1}{\sqrt{2-\sqrt{3}}} + \sqrt{2} \right)$$~~

~~$$(\sqrt{r} - \sqrt{r} + \sqrt{r} - \sqrt{r} + \sqrt{r})$$~~

$$(2\sqrt{2-\sqrt{2}} + \sqrt{2})^p (2\sqrt{2-\sqrt{2}} - \sqrt{2})^p = \underbrace{(f(x-p) - x)^p}_{x=p \pm 2}$$

~~ist~~

$$A = \sqrt[3]{\frac{1}{r}} \left(\frac{1}{r} \right)^{-\frac{r}{3}} = \sqrt[3]{\frac{1}{r} \times r^{\frac{r}{3}}} = \sqrt[3]{\frac{1}{r^{1-\frac{r}{3}}}} \quad (\text{سوال 1})$$

$$= Y \times Y = Y^2$$

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

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page: ()

Subject:

Year:

Month:

Day:

$$\frac{\left(\frac{1}{a} - r\right)}{1 + \sqrt{r}} = \frac{\overset{r\sqrt{r}}{\sqrt{r^3}} - r}{1 + \sqrt{r}}$$

$$\sqrt[r]{a} = \sqrt[r]{r^r \times a^{\frac{10}{r}}}$$

$$a^{\frac{1}{r}} = a^{\frac{10}{r}} \times r^r$$

(9/12)

$$a^{\frac{1}{r} - \frac{10}{r}} = r^r$$

$$a^{-\frac{9}{r}} \times r^r = a^{-r} = r^r$$

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

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

$$a = \sqrt[r]{\frac{1}{r^r}}$$

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$$\frac{r(1 - \sqrt{r})}{-1} = r - r\sqrt{r}$$

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$$\sqrt{x+a} + \sqrt{x-r} = A$$

$$\sqrt{x+a} - \sqrt{x-r} = r$$

$$\{ \quad \quad \quad \} \quad \quad \quad \times A \quad x+a - (x-r) = a+r$$

$$A = \frac{a+r}{r} = \frac{\sqrt{x+a} + \sqrt{x-r}}{r} = \frac{a+r}{r}$$

$$= \frac{a+r-r}{r} = \frac{a}{r}$$

