

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

②

$$\left(\sqrt{x-1} \right)^2 + \left(\sqrt{x+1} \right)^2 - 1(\sqrt{x-1})(\sqrt{x+1}) = t(r-\sqrt{r})$$

③

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

$$a = \sqrt{x-1} \sqrt{x+1} \quad / \quad \left(a + \frac{1}{a} + \sqrt{r} \right) \left(a - \frac{1}{a} - \sqrt{r} \right) = r^2$$

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

④

$$(rA)^{-\frac{1}{2}} = \frac{1}{r} \quad A = \sqrt{r^2 \sqrt{r}} \left(\frac{1}{r} \right)^{-\frac{1}{2}}$$

⑤

$$a = \sqrt{x} \frac{1}{a} = \frac{1}{a}$$

⑥

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

⑦

$$\sqrt{x+a} - \sqrt{x-a} = 0$$

جواب

سارنا ایسی تقریبی

$$11 = \frac{1}{2} \quad | \quad y_1 = \frac{1}{2} \quad | \quad y_2 = \frac{1}{2} \quad | \quad y_3 = \frac{1}{2}$$

④ ①

$$1 + y_1 = 2 \quad | \quad y_1 = \frac{1}{2} \rightarrow y_2 = \frac{1}{2}$$

$$\text{②} \quad \left(\frac{1}{4 + \sqrt{15}} \right)^{\frac{1}{2}} \times \left(1 + \sqrt{15} \right)^{\frac{1}{2}} = \frac{1}{4 + \sqrt{15}} \times \left(1 + \sqrt{15} \right)^{\frac{1}{2}} \times \left(1 + \sqrt{15} \right)^{\frac{1}{2}}$$

$$\left(\frac{1 + \sqrt{15}}{4 + \sqrt{15}} \right)^{\frac{1}{2}} \times \left(\frac{(1 + \sqrt{15})^2}{(4 + \sqrt{15})^2} \right)^{\frac{1}{2}}$$

$$\text{ب) } \left(\frac{\sqrt{15} + \sqrt{10}}{\sqrt{15} + 1} \right) \left(\sqrt{15 - \sqrt{15}} - \sqrt{13 + \sqrt{15}} \right) = 0$$

$$\text{ج) } \frac{\sqrt{15} + \sqrt{10}}{5 - \sqrt{15}} - \frac{2(\sqrt{15} - 1)}{1} = \frac{2}{59 - 1}$$

$$\text{د) } \frac{\sqrt{15} + 1}{4 + \sqrt{15}} + (2 - \sqrt{15})^{-1}$$

الف)

④

$$\text{ب) } \int_1^4 \sqrt{15} x^3 \times \int_1^4 \sqrt{15} x \times \int_1^4 \sqrt{15} x^2 \times \int_1^4 \sqrt{15} x^{\frac{1}{2}}$$

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