

14/5

کتاب کرسی یازدهم دفتر ب تکلیف

Date _____

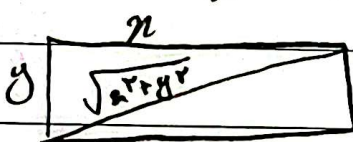
Subject _____

$$\frac{1+\sqrt{a}}{r} \quad \boxed{a+d=n} \quad (1)$$

$$\frac{n}{r} - \frac{\sqrt{a}+1}{r} = n = 2\sqrt{a}+2$$

$$\text{نسبت ساده} = \frac{r \times (2\sqrt{a}+2)}{r \times a} = \frac{2(\sqrt{a}+1)}{a} \quad (2)$$

$$\Rightarrow \frac{r}{10} \times (\sqrt{a}+1) = 0.1r(\sqrt{a}+1)$$



$$\frac{\sqrt{n^2+y^2}}{n} = \frac{\sqrt{a}+1}{r} \quad (3)$$

$$(\quad)^2 \Rightarrow \frac{n^2+y^2}{n^2} = \frac{a+1+2\sqrt{a}}{r^2} = \frac{r+\sqrt{a}}{r} \quad (4)$$

$$\frac{n^2}{n^2} + \frac{y^2}{n^2} = 1 + \frac{1+\sqrt{a}}{r} \quad \left(\frac{y}{n}\right)^2 = \frac{\sqrt{a}+1}{r}$$

$$\rightarrow \frac{n^2}{y^2} = \frac{r}{\sqrt{a}+1}$$

$$ra + \sqrt{ra^2+ca} = r \quad \frac{a+1}{a} = ?$$

$$\sqrt{ra^2+ca} \rightarrow ra^2+ca \gg \frac{-r}{+1} \quad \frac{0}{-1+}$$

$$\sqrt{ra^2+ca} = r - ra \quad (\quad)^2 \rightarrow$$

$$ra^2+ca = r^2 - 2ra + ra^2 \rightarrow \sqrt{ra^2+ca} = r - ra$$

$$a=2, \frac{r}{v} \quad \frac{\frac{r}{v}+1}{\frac{r}{v}} = \frac{\frac{r}{v}}{\frac{r}{v}} = \frac{1}{r} = \frac{r}{a}$$

$$\sqrt{r(\frac{r}{v})^2} = \frac{r-y}{-r} \times \sqrt{r(\frac{r}{v})^2 + \frac{1}{v}} = \frac{1r-r}{v} = \frac{1}{v}$$

$$\sqrt{n+1} \left(\frac{-r\sqrt{n-1}}{9-n+1} \right) = \frac{(\sqrt{n-1})^r}{\sqrt{n-1}}$$

$$\rightarrow r\sqrt{n+1} = n-1$$

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

$$\rightarrow n^r - r^2 n + 9r$$

$$\rightarrow n = 1 \pm r\sqrt{r}$$

$$\times 1 \pm r\sqrt{r}$$

$$(n-1) \pm r\sqrt{r}$$

$$\frac{\sqrt{n+1} (r - \sqrt{n-1}) - \sqrt{n+1} (r + \sqrt{n-1})}{10 - n}$$

$$= \frac{\sqrt{n+1} (-2\sqrt{n-1})}{10 - n} = \frac{2\sqrt{n^2 - 1}}{n - 10} = \sqrt{n-1}$$

$$n \neq 10, 1$$

$$r\sqrt{n+1} = n-10 \quad \sqrt{n+1} = \frac{n-10}{r}$$

$$\frac{1}{\sqrt{r-n} + r} - \frac{1}{r - \sqrt{r-n}} = \frac{r-n}{a\sqrt{r-n}}$$

$$\frac{r - \sqrt{r-n} - r - \sqrt{r-n}}{r - (r-n)} = \frac{r-n}{a\sqrt{r-n}} \rightarrow \sqrt{r-n} = t$$

$$\frac{r-t}{r-t^2} = \frac{t^r}{a t} \Rightarrow -10 = r-t^r \quad t^r - 10 = 0$$

$$\sqrt{r-n} = \sqrt{10} \rightarrow r-n = 10 \Rightarrow n = -10 \rightarrow \text{...}$$

$$\frac{1}{n^r} + \frac{1}{(1-n)^r} = \frac{14}{9}$$

$$\frac{n^r + (1-n)^r}{n^r (1-n)^r} = \frac{14}{9}$$

$$n = \frac{r}{r} \quad 1-n = \frac{r}{1r}$$

$$\frac{r}{r} + \frac{r}{1r} = \frac{9+r}{1r} = \frac{1r}{1r} = 1$$

$$\frac{r(n^r - n) + 1}{(n-n^r)^r} = \frac{14}{9} \quad \frac{r(n+1)}{n^r} = \frac{14}{9}$$

$$\rightarrow t = \dots, \frac{r}{r}, \frac{r}{14}$$

$$S_1 = 1 \quad S_r = 1 \quad 1+1=r$$

$$\sqrt{x^2 + \sqrt{-x^2 + rx + r^2 - 1}} + \sqrt{x^2 + \sqrt{-x^2 + rx - 1}} = x + r$$

$x = r \rightarrow 0$ $x = -r \rightarrow 0$

$$\sqrt{r} + \sqrt{(r)^2} = r + r \rightarrow r + r = 2r$$

یک جواب

$x < -r$	$-r < x < 1$	$x > 1$	
$-x - r - x + 1$	$x + r - x + 1$	$x + r + x - 1$	
$= -2x - r - 1$	$= r$	$= 2x + r - 1$	

$x = 1$
 $y = 1V - x = (-r, V)$
 $(r, 0)$
 $AB = \sqrt{r^2 + r} = r\sqrt{2}$

$$y = \frac{1V - x}{r} \rightarrow rx + 1 = \frac{1V - x}{r} \rightarrow rx + r = 1V - x$$

$$-rx - 1 = \frac{1V - x}{r} \rightarrow -rx - r = \frac{1V - x}{r} \rightarrow -rx - r = 1V - x$$

$Vx = 1r \Rightarrow x = r$
 $x = r$
 $x = r$

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

$$y = \sqrt{x^2 - rx + r^2}$$

$$\sqrt{(x-r)^2} = |x-r|$$

$$|x-r| = \frac{x}{r} + r$$

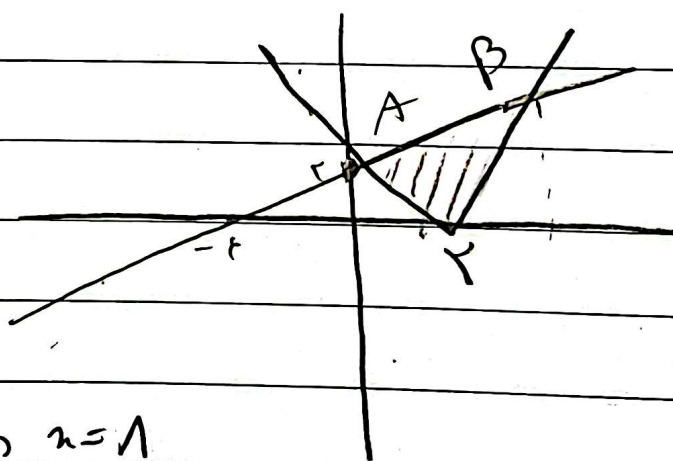
$$x-r = \frac{x}{r} + r \rightarrow \frac{x}{r} = r \rightarrow x = r$$

$$-x+r = \frac{x}{r} + r \rightarrow x = 0 \quad A(0,0)$$

$$B(1,1)$$

$$d_{AB} = \sqrt{(1-0)^2 + (1-0)^2} = \sqrt{2}$$

$$S = \frac{r\sqrt{2} \times \sqrt{2}}{r} = 1$$



$$\text{کهریز} = x \quad \text{فرهاد} = x + 1$$

10

$$\frac{1}{x} + \frac{1}{x+1} = \frac{1}{20} \rightarrow \frac{x+1+x}{x(x+1)} = \frac{1}{20}$$

5

$$20(x+1) = x^2 + x$$

$$x^2 - 19x - 20 = 0$$

$$(x+20)(x-19) = 0 \rightarrow x = -20 \text{ یا } x = 19$$