

Subject:

Year.

Month.

Date.

() *Shahid* *Latif*

Name.

$$\frac{n}{r} = \frac{\sqrt{a+1}}{r} \rightarrow n = \sqrt{a+1} \quad \left. \vphantom{\frac{n}{r} = \frac{\sqrt{a+1}}{r}} \right\} \frac{n}{n} = \frac{r}{\sqrt{a+1}}$$

with $m = a$

$$\frac{\sqrt{a+1}}{r} = \frac{\sqrt{a^2+b^2}}{a} \xrightarrow{\text{Cross}}, \frac{r+\sqrt{a}}{r} = \frac{a^2+b^2}{ar} \rightarrow \frac{b^2}{ar} = \frac{1+\sqrt{a}}{r} - r$$

$$a = d^2$$

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

$$ra - r = -\sqrt{ra^2+ea} \xrightarrow{\text{Cross}}, 9a^2 + e - 12a = ra^2 + ea$$

$$va^2 - 19a + e = 0 \xrightarrow{\text{Cross}}, a^2 - 19a + 1 = 0 \rightarrow (a-1)(a-1) = 0$$

$$a = \frac{1}{r} \cdot \frac{r}{v} \xrightarrow{I} a = \frac{r}{v} \cdot \frac{v}{r}$$

$$\frac{a+1}{a} = 1 + \frac{1}{a} = 1 + \frac{v}{r} = \frac{r+v}{r}$$

$$ra - r < 0 \rightarrow a < \frac{r}{v} I$$

$$\frac{\sqrt{n+1}}{\sqrt{n+1}+r} + \frac{\sqrt{n+1}}{\sqrt{n+1}-r} = \frac{n-1}{\sqrt{n+1}} \xrightarrow{n \neq 1}, \frac{\sqrt{n+1}(\sqrt{n+1}-r) + \sqrt{n+1}(\sqrt{n+1}+r)}{n-1} = \sqrt{n+1}$$

$$r\sqrt{n+1} = \sqrt{n+1}(n-1) \xrightarrow{n \geq 1}, r\sqrt{n+1} = n-1 \rightarrow n^2 - 2on + 1 \dots = r^2n + r$$

$$n^2 - 2rn + 1 = 0 \rightarrow \text{دو درجه معادله}$$

$$\text{دو درجه معادله}$$

TOPCO

Subject: _____

Year. _____

Month. _____

Date. _____

()

Name. _____

$$\text{uf } r \rightarrow \frac{1}{\sqrt{r-n} + r} + \frac{1}{\sqrt{r-n} - r} = +\frac{1}{\omega} \sqrt{r-n}$$

$$\frac{r\sqrt{r-n}}{r-n-r} = \frac{1}{\omega} \sqrt{r-n} \rightarrow r = -\frac{1}{\omega} n - \frac{r}{\omega} \rightarrow \frac{r}{\omega} = -\frac{1}{\omega} n \rightarrow \text{r-n-r}$$

جواب: مثبت نادر

Subject:

Year. Month. Date. ()

Name.

$$\left(\frac{1}{n} + \frac{1}{1-n}\right)^r - r\left(\frac{1}{n(1-n)}\right) = \frac{140}{9}$$

$$\rightarrow \left(\frac{1}{n-n^r}\right)^r - \frac{r}{n-n^r} = \frac{140}{9} \xrightarrow{\frac{1}{n-n^r} = t} t^r - rt + 1 = \frac{149}{9}$$

$$\rightarrow t = \frac{14}{10} \text{ or } \frac{10}{10} \quad \left. \begin{array}{l} -n^r + n - \frac{r}{14} = 0 \rightarrow S_1 = 1 \\ -n^r + n + \frac{r}{10} = 0 \rightarrow S_2 = 1 \end{array} \right\} 1 + \sqrt{15^r}$$

$$-n^2 + (n^2 + r^2 - 1) \geq 0 \rightarrow (n-r)(n+r) \geq 0 \quad \frac{-r \quad r \quad 0 \quad 1}{+ \quad - \quad + \quad -} \quad \text{I} \quad \checkmark$$

$$-n^2 + 4n - 1 \geq 0 \rightarrow (n-2)(n-1) < 0 \quad \frac{2 \quad 1}{+ \quad - \quad +} \quad \text{II}$$

$$I \cap II = \{r\} \quad \frac{\sqrt{r^2 - 0}}{r} + \frac{\sqrt{r^2 - 0}}{r} = \frac{r+r}{r} \quad \checkmark \quad \text{قوة جاب}$$

Subject:

Year.

Month.

Date.

()

Name.

$$\frac{-n-2n+1}{-2n-1} \quad \mu \quad \frac{n+2n-1}{2n+1}$$

$$\frac{12-n}{2} = (2n+1) \rightarrow \left. \begin{array}{l} n = -\frac{25}{5} \\ y = 2 \end{array} \right\} B$$

$$\frac{12-n}{2} = 2n+1 \rightarrow \left. \begin{array}{l} n = \frac{10}{3} \\ y = 0 \end{array} \right\} A$$

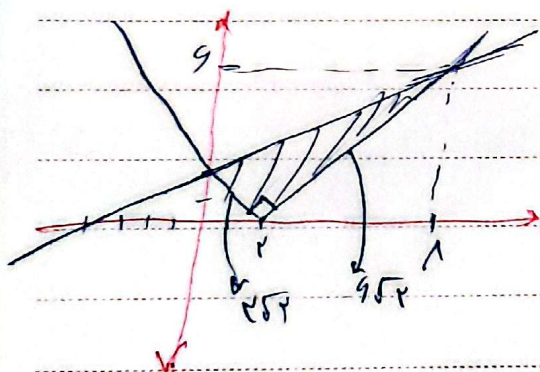
$$AB = \sqrt{(2+\frac{10}{3})^2 + (0-2)^2} = \frac{14\sqrt{10}}{3}$$

$$y = \sqrt{(n-2)^2} = |n-2|$$

$$y = \frac{1}{2}n + 2$$

$$n > 2, n-2 = \frac{1}{2}n + 2 \rightarrow n = 4, y = 4$$

$$n < 2, n-2 = -(\frac{1}{2}n + 2) \rightarrow n = 0, y = 2$$



$$S_A = \frac{1}{2} \times 4\sqrt{5} \times 4\sqrt{5} = 12$$

$$n \text{ } \frac{1}{n} \text{ } \frac{1}{n+9} = \frac{1}{n}$$

$$n+9 \text{ } \frac{1}{n} \text{ } \frac{1}{n+9} = \frac{1}{n}$$

$$\frac{1}{n} + \frac{1}{n+9} = \frac{1}{n} \rightarrow 2n + 11n + 2n = n^2 + 9n$$

$$n^2 + 11n - 11n = 0 \rightarrow (n-11)(n+11) = 0 \rightarrow \left. \begin{array}{l} n = 11 \\ n = -11 \end{array} \right\} \text{ } \frac{1}{n} \text{ } \frac{1}{n+9} = \frac{1}{n}$$

TOPCO