

نیم دایره

رکت

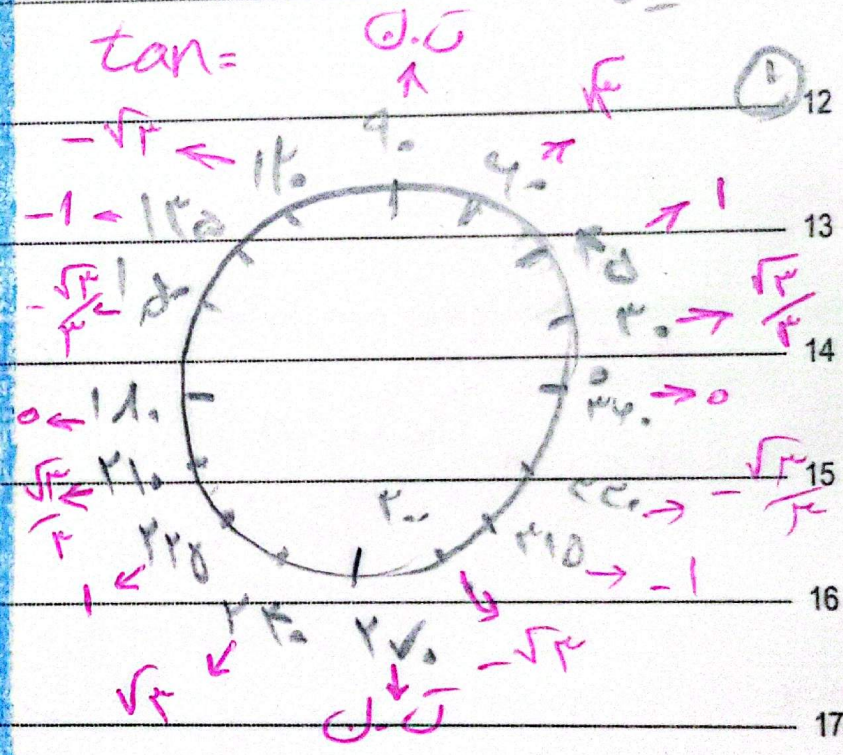
نیم دایره

ا) $\frac{1}{r} - 1 = -\frac{5}{r}$

ب) $\frac{\sqrt{r}}{r} + \frac{\sqrt{r}}{r} + \frac{r\sqrt{r}}{r} = \frac{2\sqrt{r}}{r}$

ج) $\frac{\sqrt{r}}{r} + r \frac{\sqrt{r}}{r} + \frac{r\sqrt{r}}{r} = \frac{r\sqrt{r}}{r}$

د) $\cos\left(\frac{1}{r}\right) + \sin\left(\frac{1}{r}\right) = 1$



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$$a = 1r \quad 4a > a \quad (\checkmark)$$

$$b = 7 \quad 10a < b$$

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

ii)

$$(a-r)(a+r)$$

$$(a-r)(a+r)(a-r)(a+r)$$

$$\begin{array}{cccc} -r & -r & r & r \\ + & - & + & - \end{array}$$

$$\{(-a-r)(a+r)\} - \{r\}$$

$$u) \frac{a^2 - 10a + 9}{a^2 - 2a} \quad \frac{a-1}{a^2 - 2a - 9}$$

$$-a^2 - 8a + 4$$

$$-a^2 + a$$

$$-9a + 4$$

$$-9a + 4$$

$$\frac{a^2 + 10a - 9}{a^2 + 2a} \quad \frac{a+1}{a^2 + 2a - 9}$$

$$a^2 - 8a - 9 = r^2 - r - 1 \quad | \quad r \quad r$$

$$a^2 + a$$

$$\begin{array}{cccc} -4a-9 & + & - & + \\ -4a-9 & + & - & + \end{array}$$

$$(a-1)(a-r)(a+r) \quad r^2 + \infty$$

$$(a+1)(a+r)(a-r) \quad \text{PASARGAD}$$

$$a^2 + 10a = a^2 + a^2 + 1 \quad (r)$$

$$a^2 - a - r = 0 \quad 2$$

$$a = r - 1 \quad 3$$

$$9 = r(1) + r + r \quad 4$$

$$r \times 9 - b = a - 9 \quad 5$$

$$r^2 = a + b \quad 6$$

8

(d)

$$u) a^2 (a-1) \quad 10$$

$$1R = \sqrt{r^2 + 9} \quad 11$$

12

$$u) r a^2 (a+r) + r (a+r) = \quad 13$$

$$r (a+r) (a^2 + r) \quad 14$$

$$1R = \sqrt{-r} \quad 15$$

16

$$u) a > r \quad 17$$

$$(a-1)(a+1)$$

$$+ - + -$$

$$D_f = r^2 + \infty \quad 18$$

$$u) 9 > r a \quad 19$$

$$\left(\frac{1}{r}, r\right) \quad 20$$

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(10)

$$\begin{array}{r} -1 \\ \hline - \quad + \quad + \\ \hline -1 \quad + \\ \hline + \quad + \quad - \end{array}$$

$$(-1 \ 9) - \sqrt{3}$$

ب) $\begin{array}{l} [n] \geq 4 \\ [n] \leq 2 \end{array} \quad \phi$

(9)

$$\begin{array}{l} \text{أ) } \sqrt{2[n] - \epsilon} \\ 2[n] \geq \epsilon \\ [n] \geq 5 \\ [r + \infty) \end{array}$$

ب) $\begin{array}{l} 2[n] \geq 5 \\ [n] \geq 15 \\ [r + \infty) \end{array}$

1

2

3

4

5

6

7

8

9

10