

طراحی و محاسبه مدار - یاد هم پسر - تلفظ 17

$$\frac{\Delta y}{\Delta x} = \frac{m-k}{r} = \frac{-1}{r} \rightarrow m-k = -r \Rightarrow \Delta y = r / \sqrt{\Delta x^2 + \Delta y^2} = \sqrt{r^2 + 9} = r\sqrt{5} \Rightarrow S = \varepsilon \Delta \quad (r) \quad 1$$

$$5. \sqrt{\Delta x^2 + \Delta y^2} = \sqrt{14 + 9} = 5 \checkmark / m_{AB} = m_{CD} = \frac{-r}{\varepsilon} = \frac{r}{-1-r} \rightarrow n = \frac{r}{r} \rightarrow C = (\frac{r}{r}, y) \rightarrow O = (-\frac{r}{r}, y+r) \quad (r)$$

$$m_{BC} \times m_{CD} = -1 \Rightarrow m_{BC} = \frac{\varepsilon}{r} = \frac{y-1}{-\frac{r}{r}} \Rightarrow y-1 = -r \Rightarrow y = -1 \Rightarrow C = (\frac{r}{r}, -1) \quad (r)$$

$$O = (-\frac{r}{r}, r)$$

$$BC = \sqrt{\Delta x^2 + \Delta y^2} = \sqrt{9\frac{r}{\varepsilon} + \frac{r}{14\frac{r}{\varepsilon}}} = \frac{\Delta}{r} \checkmark$$

$$r(\frac{\Delta}{r} + \Delta) = \Delta + 1 = 1\Delta \checkmark$$

$$10. y = \frac{(-r_m)}{m^2-1}x + \frac{r}{m^2-1} \rightarrow \tan \theta = \frac{-r_m}{m^2-1} = \sqrt{r} \rightarrow \sqrt{r}m^2 + r_m - \sqrt{r} = 0 \quad (r) \quad r$$

$$|m_1 - m_2| = \frac{\sqrt{\Delta}}{|a|} = \frac{\sqrt{14}}{\sqrt{r}} = \frac{r}{\sqrt{r}} = \frac{r\sqrt{r}}{r} \checkmark$$

$$BC \Rightarrow y = \frac{m}{r}x - \frac{b}{r} = y - rx + r = 0 \rightarrow AH = \frac{|9-r+r|}{\sqrt{\Delta}} = \frac{1}{\sqrt{\Delta}} = \frac{1\sqrt{5}}{\Delta} = r\sqrt{5} \checkmark \quad (r) \quad \varepsilon$$

$$\frac{\Delta y}{\Delta x} = \frac{\Delta}{\varepsilon} = r$$

$$15. AB = BC \rightarrow -rx + v = \frac{v}{r}x - \frac{19}{r} \Rightarrow \frac{11}{r}x = \frac{r^2}{r} \Rightarrow x_B = r \Rightarrow y_B = 1 \quad (r) \quad \Delta$$

$$-rx + v \quad \frac{v}{r}x - \frac{19}{r}$$

$$BH = \frac{|r^2 - 9 - 19|}{\sqrt{r\Delta}} = \frac{r^2}{\Delta} \checkmark$$

$$20. \frac{x}{-\frac{r}{\varepsilon}} + \frac{y}{-\frac{r}{\varepsilon}} = 1 \Rightarrow -\frac{r}{\varepsilon}x - \frac{r}{\varepsilon}y = \frac{r}{\varepsilon} \xrightarrow{x=y} -\frac{2r}{\varepsilon}x = \frac{r}{\varepsilon} \rightarrow x = -\frac{r}{2\varepsilon}, y = -\frac{r}{2\varepsilon} \quad (r) \quad \Delta$$

$$\frac{r}{\varepsilon} = \sqrt{r} \times \frac{r}{\varepsilon} = \frac{r}{r} \times \sqrt{r} = r\sqrt{r} \checkmark$$

$$y = ax + 1 \quad \left. \begin{array}{l} a = \frac{1}{a}, a^2 = 1 \Rightarrow a = \pm 1 \end{array} \right\} \begin{array}{l} \xrightarrow{1} y = x+1 \quad \sqrt{1+1} \text{ تغییر رویه} \\ \xrightarrow{-1} y = -x+1 \quad \sqrt{1+1} \text{ تغییر رویه} \end{array} \quad (r) \quad \Delta$$

$$y = \frac{1}{a}x + \frac{a-1}{a}$$

$$25. \left. \begin{array}{l} y = x+1 \rightarrow y-x=1 \\ y = x \rightarrow y-x=0 \end{array} \right\} \frac{|1-0|}{\sqrt{r}} = \frac{\sqrt{r}}{r}$$

$$\left. \begin{array}{l} \frac{\sqrt{r}}{r} \times \frac{\sqrt{r}}{r} = \frac{1\varepsilon}{\varepsilon} \checkmark \\ \sqrt{r\Delta - \frac{1}{r}} = \sqrt{\frac{r\Delta}{r}} = \frac{v}{\sqrt{r}} = \frac{\sqrt{r}}{r} \end{array} \right\}$$

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$$x - 3y = 1 \rightarrow y = \frac{1}{3}x - \frac{1}{3} = d_1 \Rightarrow d_1 = -3x + b \xrightarrow{-\frac{1}{3} \cdot 1} 0 = -1 + b \Rightarrow b = 1$$

$$d_1 = -3x + 1$$

$$\frac{1}{3}x - \frac{1}{3} = -3x + 1 \rightarrow \frac{10}{3}x = \frac{4}{3} \rightarrow x = \frac{2}{5}$$

$$y = 0.4$$

$$5. \quad d_1 \xrightarrow{y=0} \frac{1}{3}x = \frac{1}{3} \Rightarrow x = 1 \rightarrow C = (1, 0) \rightarrow AC = \sqrt{9+0} = 3$$

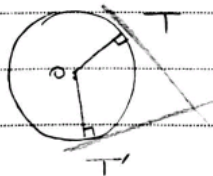
$$\rightarrow A = (2, 0) \rightarrow BH = \frac{3 \cdot 0.4}{1} = 1.2$$

$$\frac{3 \cdot 0.4}{1} = \frac{1.2}{1} = 1.2$$

$$m = \frac{\Delta y}{\Delta x} = \sqrt{r} = \frac{b-a}{\frac{1}{4}} \Rightarrow b-a = \sqrt{r}/4 \rightarrow A = (-\frac{1}{r}, a)$$

$$B = (-\frac{1}{r}, b)$$

$$10. \quad AB = \sqrt{\frac{1}{r^2} + \frac{r}{r^2}} = \frac{r}{r} = 1 \rightarrow \text{مسافة} = \text{مسافة} \times \sqrt{r} \rightarrow \sqrt{\frac{r}{r}} \checkmark$$



$$m_{OT} = \frac{0 - -\frac{r}{\epsilon}}{0 - -r} = \frac{\frac{r}{\epsilon}}{r} \checkmark \quad m_{OT'} = -\frac{r}{\epsilon}$$

$$m_{OT'} \times m_{OT} = -1$$

$$15. \quad r = OT = OT' = \sqrt{16 + 9} = 5 \checkmark$$

$$m_{OT'} = -\frac{r}{\epsilon} \Rightarrow OA' = y = -\frac{r}{\epsilon}x + b \xrightarrow{0,0} y = -\frac{r}{\epsilon}x$$

$$OT' = \sqrt{x^2 + \frac{r^2}{\epsilon^2}x^2} = \sqrt{\frac{r^2}{\epsilon^2}x^2} = \frac{r}{\epsilon}|x| = 5 \rightarrow x = \pm 5 \rightarrow \text{نقطة}$$

$$\Rightarrow T' = (-5, 3)$$

$$m_{OA} = \frac{r}{\epsilon} \xrightarrow{\text{مقدور}} m_L = -\frac{r}{\epsilon}$$

$$L: y + r = -\frac{r}{\epsilon}(x + r) \rightarrow y = -\frac{r}{\epsilon}x - \frac{r^2}{\epsilon}$$

$$25. \quad \xrightarrow{\text{ل و ل'}} m_L = \frac{r}{\epsilon} - L': y - \frac{r}{\epsilon}x - K = 0$$

$$OL' = OA = \sqrt{9 + 16} = 5 \text{ شعاع}$$

$$OL' = \frac{1-K}{\frac{1}{1+\frac{14}{9}}} = 5 \rightarrow K = \frac{15}{9} \rightarrow L': y = \frac{r}{\epsilon}x + \frac{r^2}{\epsilon}$$

$$30. \quad \text{نقاط B و A} \rightarrow (-7, -1) \xrightarrow{\text{حاصل ضرب}} \boxed{7}$$