

نام و نام خانوادگی: اسما علی پاسخنامه تشریحی تکلیف شماره ۱۷ کلاس ۱۱	
شیب: $\frac{m-k}{4} = -\frac{1}{2} \rightarrow m-k = -2$ $\overline{AB}: \sqrt{(m-k)^2 + (4)^2} = \sqrt{40} \rightarrow$ ضلع $S = (\sqrt{40})^2 = 40 \checkmark$	(۲) ۱
$m_{\overline{AB}} = m_{\overline{CD}} \Rightarrow \frac{3}{-4} = \frac{3}{-1-2m} \Rightarrow m = \frac{3}{2}$ $\overline{AB}$ عمود $\overline{BC}$ $m_{\overline{BC}}: \frac{4}{3} = \frac{y-1}{\frac{3}{2}-3} \Rightarrow y = -1$ $\overline{CB} = \sqrt{(1,5)^2 + 2^2} = 2,5 \checkmark$ $\overline{AB} = \sqrt{20} = 4,47 \checkmark$ مساحت = $2(5+2,5) = 15 \checkmark$	(۲) ۲
$2m^2 + (m^2-1)y = 3$ $\tan \alpha = \sqrt{3} \Rightarrow \alpha = 60^\circ$ $\frac{-2m}{m^2-1} = \sqrt{3}$ $\sqrt{3}m^2 + 2m - \sqrt{3} = 0 \begin{cases} m_1 = \frac{1}{\sqrt{3}} \\ m_2 = \frac{-2}{\sqrt{3}} \end{cases}$ $\frac{1}{\sqrt{3}} - (-\frac{2}{\sqrt{3}}) = \frac{3}{\sqrt{3}} \checkmark$	(۲) ۳
$A: /_9 \quad B: /_3 \quad C: /_{11} \Rightarrow \overline{BC} = y = 2x - 3$ $\overline{AH} = \frac{9-2+3}{\sqrt{6}} = \frac{10}{\sqrt{6}} = 2\sqrt{6} \checkmark$	(۲) ۴
$\overline{AB}: y = -2x + 7$ $\overline{BC}: y = \frac{1}{2}x - \frac{19}{2} \Rightarrow -2x + 7 = \frac{1}{2}x - \frac{19}{2} \Rightarrow x = 3$ $\overline{AC}: 4y - 2x - 17 = 0$ $\overline{BH} = \frac{ -17-9+4 }{5} = \frac{22}{5} = 4,4 \checkmark$ $\overline{AC}$ از نقطه B از خط $\overline{AC}$	(۲) ۵

$$m = \frac{-4}{\frac{r}{r}} = -1 \rightarrow y = -1x - 4 \quad x = -1x - 4 \Rightarrow x = -\frac{r}{r}$$

$$\frac{2\sqrt{r}}{r} \quad \text{قطر مربع}$$

$$ay - x = a - 1 \rightarrow m = \frac{1}{a}$$

$$y - ax = 1 \rightarrow m = a$$

$$\Rightarrow a = \frac{1}{a} \Rightarrow a = \pm 1 \sim a = 1$$

غير قابل قبول

$$\Rightarrow \begin{cases} y = x \\ y = x + 1 \end{cases} \quad \text{فاصله دو خط موازی: } \frac{|1-0|}{\sqrt{2}} = \frac{1}{\sqrt{2}} \quad \sqrt{\frac{1}{r} + x^2} = a \Rightarrow x = \frac{V}{\sqrt{r}}$$

$$S = \frac{V}{\sqrt{r}} = \frac{V}{r} \quad \checkmark$$

$$y = \frac{x}{r} - \frac{1}{r} \rightarrow \frac{x}{r} - \frac{1}{r} = -rx + 12 \rightarrow x = \frac{r}{r}$$

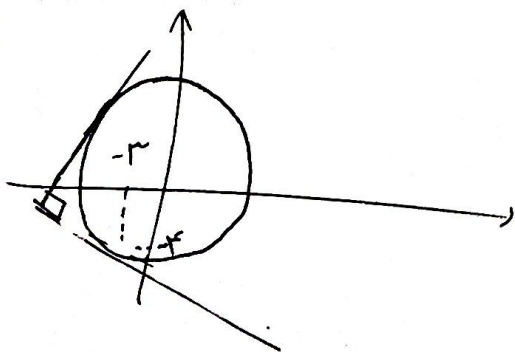
$$y = -rx + 12$$

$$\rightarrow S = r \times \frac{9}{10} \times \frac{1}{r} = \frac{r}{10} \quad \checkmark$$

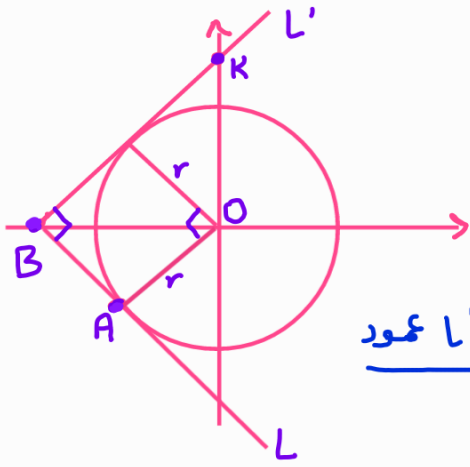
$$y = 0,9$$

$$A: \left| \begin{matrix} -\frac{1}{r} \\ b \end{matrix} \right| \quad B: \left| \begin{matrix} -\frac{1}{r} \\ a \end{matrix} \right| \quad m = \frac{b-a}{\frac{1}{r}} = \sqrt{r} \Rightarrow b-a = \frac{\sqrt{r}}{r}$$

$$\Rightarrow \overline{AB}: \sqrt{(b-a)^2 + \left(\frac{1}{r}\right)^2} = \sqrt{\frac{r}{r^2}} = \frac{r}{r} \Rightarrow \text{قطر} = \sqrt{r} \times \frac{r}{r} = \frac{\sqrt{r}}{r} \quad \checkmark$$



$$-rx - r = \frac{r}{r}$$



$$m_{OA} = \frac{4}{3} \xrightarrow{\text{عمود بر } L} m_L = -\frac{3}{4}$$

$$L: y + 4 = -\frac{3}{4}(x + 3) \rightarrow y = -\frac{3}{4}x - \frac{25}{4}$$

$$\xrightarrow{\text{ل و ل' عمود}} m_{L'} = \frac{4}{3} \rightarrow L': y - \frac{4}{3}x - K = 0$$

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

$$OL' = \frac{|-K|}{\sqrt{1 + \frac{16}{9}}} = 5 \rightarrow K = \frac{25}{3} \rightarrow L': y = \frac{4}{3}x + \frac{25}{3}$$

$$\text{نقطه } B \text{ محل تقاطع ل و ل'} \Rightarrow (-7, -1) \xrightarrow{\text{حاصل ضرب}} \boxed{7}$$