

۱۴,۵

نام و نام خانوادگی: کلاس: ۱۴ پاسنامه تشریحی تکلیف شماره ۱۴	۱ $\frac{A-(-2)}{x-2} = \frac{14}{-2} = -7$ $\frac{1}{x} + \frac{4}{y} = y$ ✓ $\frac{2+4}{x} = 2$ $\frac{A+(-2)}{x} = 1$ } $\frac{1}{x} + b = y \Rightarrow \frac{1}{x} + b = 1 \Rightarrow b = \frac{4}{x}$	۲ $\frac{V-2}{-2+1} = \frac{4}{-2} \Rightarrow \frac{1}{x} + b = y \Rightarrow -\frac{4}{2}x - 2 + b = 1 \Rightarrow b = \frac{5}{2}$ $-\frac{4}{2}x + \frac{5}{2} = 1 \Rightarrow -2x + 5 = 2 \Rightarrow -2x = -3 \Rightarrow x = \frac{3}{2}$ $(-2)^2 + (V-2)^2 = 0 = BC$ $0-2 = -2$ ✓	۳ $fy = ax + 2 \Rightarrow a = 2$ ✓ $2y = x + 1 \Rightarrow 2y + 2x = 1$ ✓ $\frac{1c-c'}{\sqrt{a^2+b^2}} = \frac{14-2}{\sqrt{14+4}} = \frac{12}{\sqrt{18}} = \frac{2\sqrt{6}}{3}$ $\frac{0}{2\sqrt{2}} = \frac{4}{\sqrt{2}} \Rightarrow \pi r^2 \Rightarrow \pi \left(\frac{d}{2\sqrt{2}} \right)^2 = \frac{4}{\sqrt{2}} \Rightarrow \pi = \frac{8}{\sqrt{2}} \Rightarrow \pi = \frac{4\sqrt{2}}{1}$ $r = \frac{2}{\sqrt{2}} \rightarrow S = \frac{9\pi}{2}$	۴ $\frac{c-1}{x-2} = \frac{2}{-x} = -1 \Rightarrow -x+2=y \rightarrow -x+2-y=0$ $\frac{14+0-2}{\sqrt{2}} = \frac{12}{\sqrt{2}} = 6\sqrt{2} = CH$ $AB = 2\sqrt{2} \Rightarrow MA = \sqrt{2}$ $CA = \sqrt{(2)^2 + (4)^2} = \sqrt{20} = 2\sqrt{5}$ $\frac{c}{x} - \sqrt{2} = \frac{1}{2}\sqrt{2} = \frac{\sqrt{2}}{2}$ ✓	۵ $(0-m)y = (2m-2)x + 1 \Rightarrow a = -\frac{(2m-2)}{0-m} = \frac{2m-2}{m}$ $(m+1)x + 1 = (2m-2)y \Rightarrow \frac{m+1}{2m-2} = a$ $\frac{2m-2}{m} = \frac{m+1}{2m-2}$ $2m^2 - 2m - 2 = 1 + m - 2m^2 - 2$ $0m^2 - 13m + 1 = a \Rightarrow \Delta < 0 \Rightarrow$ ✓ m معین نیست
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$$AC = AB \Rightarrow x + y = 2 \Rightarrow x = 2 - y$$

$$x + y = 2 \Rightarrow x = 2 - y$$

$$y - 2x = -1 \Rightarrow y = 2x - 1 \Rightarrow A \rightarrow \begin{cases} x = 1 \\ y = 1 \end{cases}$$

$$\sqrt{\left(1 - \frac{1}{2}\right)^2 + \left(1 - \frac{1}{2}\right)^2} = \sqrt{\frac{0}{2}} = \frac{0}{2}$$

$$AH = \frac{0}{2}$$

$$B \Rightarrow x + y = 2 \Rightarrow y = 2 - x$$

$$x + y = 2 \Rightarrow y = 2 - x$$

$$C \Rightarrow x + y = 2 \Rightarrow x = 2 - y$$

$$x + y = 2 \Rightarrow y = 2 - x$$

$$\frac{0}{2} = \frac{0}{2}$$

$$-\frac{1}{2}x + 2y = 1 \Rightarrow \frac{|C|}{\sqrt{\frac{1}{4} + 1}} = \sqrt{2} \Rightarrow |C| = \frac{\sqrt{2}}{2} \times \sqrt{2} = 1$$

$$-\frac{1}{2}x + 0 = y \Rightarrow -\frac{1}{2}x + 0 = 0 \Rightarrow x = 1$$

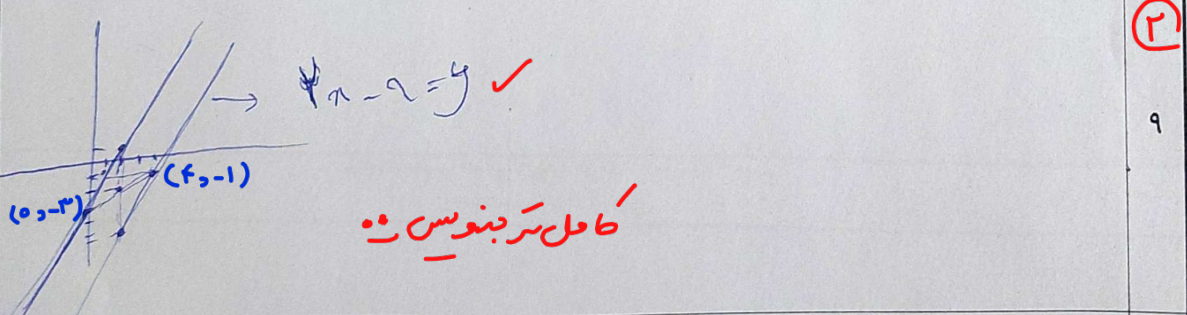
$$1 \cdot 0 = AB^2 \Rightarrow AB = 0$$

$$y = -mx + n + 2 \Rightarrow y = (1-m)x + 2$$

$$my = 2n + 2m \Rightarrow y = \frac{2}{m}x + 2$$

$$\Rightarrow (1-m)x = \frac{2}{m}x \Rightarrow m - m^2 = 2 \Rightarrow m^2 - m + 2 = 0 \Rightarrow \Delta < 0 \Rightarrow$$

جواب صغیر ہے...



$$AA' : -x + 2$$

$$A(1, 2)$$

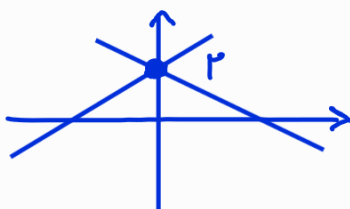
$$-x + 2 = x + 0 \Rightarrow x = 1 \Rightarrow \frac{1+a}{2} = -1 \Rightarrow a = -3$$

$$2b - a = 1 + 2 = 3 \Rightarrow b = 2$$

$$2b - a = 10$$

$$y = \frac{f}{m}x + 2$$

$$y = (1-m)x + 2$$



هر دو خط در نقطه
(۰، ۲) متقاطع اند پس ارتفاع

شدت ۲ واحد است

حالا برای کمترین سطح محل برخوردشون با محور x :

$$y = \frac{f}{m}x + 2 \xrightarrow{y=0} x = -\frac{m}{f}$$

$$y = (1-m)x + 2 \xrightarrow{y=0} x = \frac{2}{m-1}$$

$$\Delta \text{ فاصله} = \left| \frac{2}{m-1} - \left(-\frac{m}{f}\right) \right|$$

$$S_{\Delta} = \left| \frac{m^2 - m + f}{f(m-1)} \right| \times 2 \times \frac{1}{f} = \frac{\Delta}{f} \rightarrow \begin{cases} \text{مقادیر اولی: } m = 3 \\ \text{مقادیر دوم: } \Delta > 0 \rightarrow \frac{C}{a} = -1 \end{cases}$$

حاصل فنرب مقادیر $m \leftarrow (-3)$