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نام و نام خانوادگی: کلاس: ۱۴ پاسخنامه تشریحی تکلیف شماره

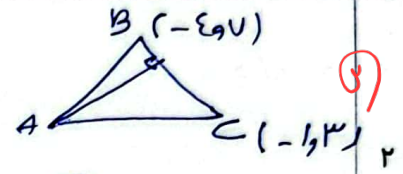
BC(۹۸) (۴-۹)

شیب $AB = \frac{14}{-2} = -7$ $\xrightarrow{\text{شیب عمود بر شیب}} m = \frac{1}{7}$
 $\frac{1}{7}x + b \rightarrow b = +1 - \frac{3}{7} = \frac{4}{7}$
 $y = \frac{1}{7}x + \frac{4}{7} \rightarrow \boxed{7y = x + 4}$
 نقطه $(\frac{14}{7}, -\frac{14}{7}) = (2, -1)$

طول $BC \rightarrow \sqrt{(-1-(-9))^2 + (3-1)^2} = 10$

شیب $BC \rightarrow m = \frac{-9}{10} \rightarrow 9x + 10y - 10 = 0$

فاصله $AB = \frac{|9(2) + 10(-1) - 10|}{\sqrt{9^2 + 10^2}} = 2$



$d = 2 = (3, 1)$

$2y - x = 10 \rightarrow m = \frac{1}{2} \rightarrow \frac{a}{b} = \frac{1}{2} \rightarrow a = 2 \rightarrow y = \frac{1}{2}x + 5$

فاصله $d = \frac{|1 - (-1) - (-10)|}{\sqrt{(-1)^2 + 1^2}} = \frac{12}{\sqrt{2}} = 6\sqrt{2}$

$S = \pi r^2 = \frac{9}{2}\pi$

$M = (\frac{14}{7}, \frac{3}{7}) = (2, \frac{3}{7})$

شیب $AB = -1$ $\xrightarrow{\text{شیب عمود بر شیب}} m = 1 \rightarrow y = x - 2$

فاصله $d = \frac{|1 - (-1) - (-2)|}{\sqrt{(-1)^2 + 1^2}} = \frac{4}{\sqrt{2}} = 2\sqrt{2}$

$m = -\frac{3m-2}{a-m}$ و $m' = \frac{m+1}{m-2} \rightarrow \frac{3m-2}{a-m} \times \frac{m+1}{m-2} = -1$

$(3m-2)(m+1) = (a-m)(m-2) \rightarrow 3m^2 + m - 2 = -m^2 + 14m - 2$

$4m^2 - 13m + 14 = 0 \rightarrow \Delta < 0$ m ندارد

