

نام و نام خانوادگی حسین حاجی حسینی پاسخنامه تشریحی تکلیف شماره ۱۷ ... کلاس B

$$\frac{m-k}{x-2} = \frac{m-k}{4} = -\frac{1}{2} \Rightarrow m-k = -2 \Rightarrow m+k = 6$$

$$\sqrt{(m-x_1)^2 + (y_1-y_1)^2} = \text{فاصله} \Rightarrow \sqrt{(x+2)^2 + (m-m)^2} = \sqrt{4x+9} = \sqrt{40} = a$$

$$s = a^2 \Rightarrow s = \boxed{40}$$

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~~$$\begin{vmatrix} 1 & 1 & 1 & 1 & 1 \\ 2 & 2 & 1 & 2 & 1 \\ 1 & 9 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 & 1 \end{vmatrix} = \begin{vmatrix} 1 & 1 & 1 & 1 & 1 \\ 2 & 2 & 1 & 2 & 1 \\ 1 & 9 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 & 1 \end{vmatrix} = 20 = s$$~~

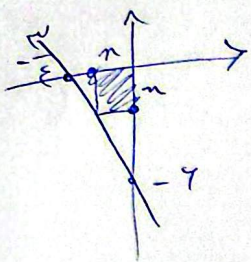
$$\sqrt{(11-2)^2 + (2-2)^2} = \sqrt{81+0} = \sqrt{81} = 9 \Rightarrow \frac{9 \times AH}{2} = 20 \Rightarrow \boxed{AH = \frac{40}{9}}$$

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$$\begin{cases} y + 2n = 17 \\ 2y - 5n = -19 \end{cases} \Rightarrow n = 3 \quad y = -2n + 17 \Rightarrow y = 1$$

$$2y - 5n - 17 = 0 \Rightarrow \frac{2(1) - 5(3) - 17}{0} = \frac{2 - 15 - 17}{0} = \frac{-30}{0} = \text{undefined}$$

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$$\frac{y-n}{y} = \frac{n}{\sqrt{y^2-n^2}} \Rightarrow y \sqrt{y^2-n^2} = 1 \cdot n \Rightarrow y \sqrt{y^2-n^2} = n \Rightarrow \sqrt{y^2-n^2} = \frac{n}{y}$$

$$\sqrt{y^2-n^2} = \frac{\sqrt{y^2-n^2}}{1}$$

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$$y-an=1 \Rightarrow y=1+an \Rightarrow y=1+1 \Rightarrow a=1 \Rightarrow y=n+1 \} \text{ O.K. } \checkmark$$

$$ya-1=a-1 \Rightarrow a=0 \Rightarrow \text{O.K.}$$

$$\sqrt{a-1} = a-1 \Rightarrow a=0 \Rightarrow \text{O.K.}$$

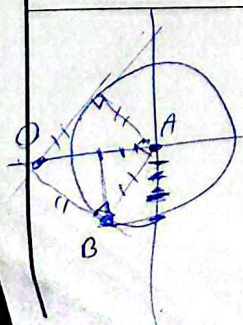
$$\sqrt{a-1} = a-1 \Rightarrow a=0 \Rightarrow \text{O.K.}$$

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$$\frac{a-b}{-\frac{1}{x} + \frac{1}{y}} = \frac{a-b}{-\frac{1}{y} + \frac{1}{x}} = \sqrt{2} \Rightarrow a-b = \frac{\sqrt{2}}{4}$$

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$$\left(-\frac{1}{x} + \frac{1}{y}\right)^2 + \left(-\frac{\sqrt{2}}{4}\right)^2 = \frac{1}{4} \Rightarrow \frac{1}{x^2} - \frac{1}{y^2} + \frac{1}{2} = \frac{1}{4} \Rightarrow \frac{1}{x^2} - \frac{1}{y^2} = -\frac{1}{4}$$



$$O = \sqrt{x} \times AB \Rightarrow \begin{cases} x_0 = -0 \\ y_0 = 0 \end{cases} \Rightarrow \boxed{x \cdot y = 0}$$

$$AB = 0$$

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مسئله ۲) حسن حاجی حسینی - کالیف ۱۷ B

$$\Delta y_{AB} = \Delta y_{D-C} \Rightarrow \epsilon - 1 = y + c - y \Rightarrow c = c$$

$$\Delta n_{AB} = \Delta n_{D-C} \Rightarrow -1 - c = -1 - n - n \Rightarrow -\epsilon = -2n - 1 \Rightarrow n = \frac{c}{2}$$

$$\Rightarrow n_{AB} \cdot n_{BC} = -1 \Rightarrow \frac{c}{-\epsilon} \times \frac{y-1}{n-c} = -1 \Rightarrow \frac{y-1}{n-c} = \frac{\epsilon}{c} \Rightarrow$$

$$\epsilon n - 1c = cy - c \Rightarrow y = \frac{\epsilon n}{c} - c \Rightarrow y = \frac{\epsilon \times \frac{c}{2}}{c} - c = -1$$

$$AB = 0 \quad BC = \frac{0}{2} \Rightarrow (0 + \frac{0}{2}) \times 2 = 0$$

مسئله ۳) $\tan \gamma = \sqrt{\epsilon}$ $y = \frac{2n}{n^2 - 1} = \sqrt{\epsilon} \Rightarrow \sqrt{\epsilon} n^2 - \sqrt{\epsilon} = 2n$
 $\sqrt{\epsilon} n^2 + 2n - \sqrt{\epsilon} = 0$

$$\Delta > 0 \quad \frac{\sqrt{D}}{|a|} = \frac{\sqrt{\epsilon - 4(-\sqrt{\epsilon})\sqrt{\epsilon}}}{\sqrt{\epsilon}} = \frac{\sqrt{\epsilon + 4\epsilon}}{\sqrt{\epsilon}} = \frac{\epsilon}{\sqrt{\epsilon}}$$

مسئله ۴) $\frac{|\epsilon - c(1.0) - 1|}{\sqrt{1 + 1}} = \frac{c}{\sqrt{1.0}} \sin h \Rightarrow s_{max} = \frac{1}{2} \times h^2 = \frac{1}{2} \times \frac{9}{1.0} = \frac{9}{2}$