

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

$$\frac{-6-1}{2} = \frac{-14}{2} = -7 \rightarrow -7x + 22 \xrightarrow{\text{عوض}} \left[\frac{1}{2}x + \frac{1}{2} \right]$$

$$M\left(\frac{2+2}{2}, \frac{-6+1}{2}\right) = (2, 1)$$

$$\left(\frac{1}{2}x + b = 1\right)$$

$$b = \frac{1}{2}$$

$$BC \text{ خط } = \sqrt{9 + (-2)^2} = 5$$

فاصله A از خط BC (AH) =

$$|3 \times (-2) - (-4) \times 7| = 10$$

$$AH = \frac{10}{BC} = \frac{10}{5} = 2$$

$$BC - AH = 5 - 2 = 3 \text{ امتداد خط}$$

$$y - x = 7 \rightarrow y = \frac{1}{2}x + \frac{7}{2} \rightarrow m = \frac{1}{2}$$

$$y = ax + 2 \rightarrow y = \frac{a}{2}x + \frac{1}{2} \rightarrow m = \frac{a}{2}$$

$$\frac{a}{2} = \frac{1}{2} \rightarrow a = 1$$

$$d = \frac{|c - c'|}{\sqrt{a^2 + b^2}} = \frac{|-7 - (-1)|}{\sqrt{1 + 2}} = \frac{6}{\sqrt{3}}$$

$$r = \frac{d}{2} = \frac{3}{\sqrt{3}}$$

$$S = Rr^2 = \pi \left(\frac{3}{\sqrt{3}}\right)^2 = \frac{9\pi}{3}$$

$$M\left(\frac{2+2}{2}, \frac{2+2}{2}\right) = (2, 2)$$

$$MA \cdot B = -1 \rightarrow y = -x + 3$$

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

$$y + 1 = 1(x + 3) \rightarrow y = x + 2$$

$$x + 2 = -x + 3 \rightarrow (x = \frac{1}{2}, y = \frac{5}{2}) H$$

$$MH = \frac{3\sqrt{2}}{2}$$

$$\vec{MH} = \left(\frac{1}{2} - 2, \frac{5}{2} - 2\right) = \left(-\frac{3}{2}, \frac{1}{2}\right)$$

$$y_1 = \frac{-2m + 2}{2 - m}x + \frac{2}{2 - m}$$

$$y_2 = y = \frac{m+1}{2m-2}x + \frac{1}{2m-2}$$

$$mm' = -1$$

$$\Delta < 0$$

$$10m - 2m^2 - 2 + 8m = 2m^2 + 2m - 2$$

$$\frac{m+1}{2m-2} = \frac{2-m}{2m-2}$$

$$2m^2 - 13m + 11 = 0$$

$$15m - 2m^2 - 2 = 2m^2 + 2m - 2$$

$$2m^2 - 13m + 11 = 0$$

$$m = \frac{1}{2} \quad m = 2$$

$$m = 2$$