

نام و نام خانوادگی آریخ پاسنامه تشریحی تکلیف شماره ۱۵۱ کلاس A

$$m = \frac{-2-2}{5-4} = -4 \quad y+2 = m(x-5) \rightarrow y = -4x+18 \quad (الف)$$

$$y-2 = -2(x-4) \quad 2y = -1-4x \quad (ب)$$

$$y = -2x+14 \quad y = \frac{-1-4x}{2} \rightarrow y = -2x - \frac{1}{2}$$

$$3y = 1-x \rightarrow y = \frac{1-x}{3} \rightarrow m = -\frac{1}{3} \rightarrow y-2 = 3(x-4) \rightarrow y = 3x-10 \quad (ج)$$

$$\frac{\pi}{6} = 30^\circ \rightarrow m = \tan 30^\circ = \frac{1}{\sqrt{3}} \rightarrow y-2 = \frac{1}{\sqrt{3}}(x-4) \rightarrow y = \frac{1}{\sqrt{3}}x - \frac{4}{\sqrt{3}} + 2 \quad (د)$$

$$\sqrt{(7-3)^2 + (-1-2)^2} = \sqrt{16+9} = 5 \quad (الف)$$

$$\frac{|12x+4y-3|}{\sqrt{9+16}} = \frac{\frac{12}{5}x + \frac{4}{5}y - \frac{3}{5}}{1} = \frac{12}{5} \quad (ب)$$

$$\begin{cases} 2x+3y=2 \\ 4x+2y=1 \end{cases} \xrightarrow{2x} \begin{cases} 2x+3y=2 \\ 4x+4y=2 \end{cases}$$

$$4x+4y=2 \rightarrow 4x+2y=1 \rightarrow 2y=1 \rightarrow y=\frac{1}{2}$$

$$2x+3(\frac{1}{2})=2 \rightarrow 2x+\frac{3}{2}=2 \rightarrow 2x=\frac{1}{2} \rightarrow x=\frac{1}{4}$$

$$\frac{|12-11|}{\sqrt{14+14}} = \frac{1}{\sqrt{28}} \quad (ب)$$

$$\frac{|2x+3y-2|}{\sqrt{4+9}} = \frac{|2x-2y-1|}{\sqrt{9+4}}$$

$$\rightarrow |2x+3y-2| = |2x-2y-1| \rightarrow 2x+3y-2 = 2x-2y-1 \rightarrow -x+5y=1$$

$$\rightarrow 2x+3y-2 = -(2x-2y-1) \rightarrow 4x+5y=1$$

$$\begin{cases} y = 2x+5 \rightarrow m=2 \\ y = -2x+3 \rightarrow m'=-2 \end{cases}$$

$$\rightarrow \tan \alpha = \left| \frac{2-(-2)}{1+(-4)} \right| = 1 \rightarrow \alpha = \frac{\pi}{4} = 45^\circ$$

$\sqrt{(4+2)^2 + (-5-3)^2} = \sqrt{36 + 64} = \boxed{10}$	الف ٦
$x = \frac{3-5}{2} = \frac{-2}{2} = \boxed{-1}$ $y = \frac{-2+4}{2} = \frac{+2}{2} = \boxed{+1} \rightarrow (-1, +1)$	ب ٧
$(-3, -3) \leftarrow y = \frac{(-13) + (3) + (1)}{3} = \boxed{3}$ $x = \frac{(-10) + (-2) + (3)}{3} = \boxed{3}$ $\begin{bmatrix} -10 & -2 & 3 \\ -13 & 3 & 1 \\ 1 & 1 & 1 \end{bmatrix} \begin{matrix} (-30) + (-39) + (-2) - (9) - (-10) - (+24) \\ -30 - 39 - 2 - 9 + 10 - 24 \\ -69 - 11 - 19 = -99 \times \frac{1}{-99} \rightarrow -48 \end{matrix}$ مامت مع كاه سيني	الف ب ٨
$-y = \frac{2x+1}{4x-3}$ $y = \frac{-2x+1}{-4x-3}$ $x = \frac{2y+1}{4y-3} \rightarrow y = \frac{2x+1}{4x-3}$ $-x = \frac{-2y+1}{-4y-3} \rightarrow y = \frac{1-2x}{4x+3}$	الف ب ج د ٩
$x = x+2 \rightarrow y-3 = \frac{2(x+2)+1}{(x+2)-3} \rightarrow y = \frac{2x+5}{x-1} + 3$ $x = x+2 \rightarrow y+2 = \frac{2(x+2)+1}{(x+2)-3} = y = 2 + \frac{5}{x} \rightarrow x = \frac{5}{y} \rightarrow y = \frac{5}{x}$	الف ب ١٠