

امید کندی نذر دلی، غزوه بیزار

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$$m = \frac{-4}{1} = -4$$

$$\Rightarrow y + 2 = -4(x - 5) \Rightarrow y = -4x + 18$$

$$y = -3x - \frac{1}{2}$$

$$\Rightarrow m = -3 \Rightarrow y - 2 = -3(x - 4)$$

$$\Rightarrow y = -3x + 14$$

$$y = \frac{-2}{3} + \frac{1}{3} \Rightarrow m = \frac{-1}{3} \Rightarrow \frac{1}{m} = 3$$

$$\Rightarrow y - 2 = 3(x - 4) \Rightarrow y = 3x - 10$$

$$\tan\left(\frac{\pi}{3}\right) = m = \sqrt{3} \Rightarrow y - 2 = \sqrt{3}(x - 4)$$

$$\Rightarrow y = \sqrt{3}x - 4\sqrt{3} + 2$$

$$\sqrt{(2 - (-1))^2 + (3 - 1)^2} = 5$$

$$\frac{|4 + 12 - 3|}{\sqrt{5}} = 3\sqrt{5}$$

$$x + 4y - 8 = 0 \Rightarrow x + 4y + \frac{-8 - 12}{4} = 0$$

$$x + 4y - 10 = 0$$

$$\frac{|-8 + 12|}{\sqrt{17}} = \frac{4}{\sqrt{17}} = \frac{4\sqrt{17}}{17}$$

$$\frac{|x_m + y - 1|}{\cancel{\sqrt{1-\beta^2}}} = \frac{|x_m - y - 1|}{\cancel{\sqrt{1-\beta^2}}}$$

$$x_m + y - 1 = \pm (x_m - y - 1)$$

$$-x + 0 \cdot y - 1 = 0$$

$$+0 \cdot x + y - 1 = 0$$

$$\left| \frac{m - m'}{1 + mm'} \right| = \tanh(\alpha)$$

$$\Rightarrow y = -x - 1, y = x - 1$$

$$\Rightarrow \left| \frac{-x - 1}{-1} \right| = 1 \Rightarrow \tanh(\alpha) = 1$$

$$\Rightarrow \alpha = \tanh^{-1}(1)$$

$$\sqrt{(-1 - x)^2 + (x - 1)^2} = 1$$

$$\frac{-1 - x}{1} = -1$$

$$\frac{x - 1}{1} = 1$$

$$\Rightarrow \begin{vmatrix} -1 \\ -1 \end{vmatrix}$$

$$\frac{1}{\beta} \begin{vmatrix} -1 & -x & x \\ -1 & x & -1 \\ 1 & 1 & 1 \end{vmatrix} = \begin{vmatrix} -x & -y & -1 \\ -1 & -x & -1 \\ -1 & -x & -1 \end{vmatrix}$$

$$\Rightarrow \begin{vmatrix} -x \\ -x \end{vmatrix}$$

$$\frac{-1 + (-x) + x}{x} = -1$$

$$\frac{-1 + x + 1}{x} = -x$$

$$\begin{vmatrix} x \\ y \end{vmatrix} \rightarrow \begin{vmatrix} x \\ -y \end{vmatrix}$$

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

$$\begin{vmatrix} x \\ y \end{vmatrix} \rightarrow \begin{vmatrix} -x \\ y \end{vmatrix}$$

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

$$\begin{vmatrix} x \\ y \end{vmatrix} \rightarrow \begin{vmatrix} y \\ x \end{vmatrix}$$

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

$$\begin{vmatrix} x \\ y \end{vmatrix} \rightarrow \begin{vmatrix} -y \\ -x \end{vmatrix}$$

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

$$\begin{vmatrix} x \\ y \end{vmatrix} \rightarrow \begin{vmatrix} x-2 \\ y+3 \end{vmatrix}$$

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$$y+3 = \frac{2x-2}{x-2} \Rightarrow y = \frac{-x+12}{x-2}$$

$$\begin{vmatrix} x \\ y \end{vmatrix} \rightarrow \begin{vmatrix} x-2 \\ y-2 \end{vmatrix}$$

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

$$\Rightarrow y = \frac{2x-1}{x-4}$$

$$\begin{cases} 17x + 5y = 2 \\ (2 - 5y = 1) \times 17 \Rightarrow 17x - 85y = 17 \end{cases} \Rightarrow \begin{cases} 17x + 5y = 2 \\ 17x - 85y = 17 \end{cases} \Rightarrow \begin{cases} -90y = 19 \\ y = -\frac{19}{90} \end{cases}$$

$$\Rightarrow x + \frac{2}{19} = 1 \Rightarrow x = \frac{17}{19}$$

$$17x + 5y = 2$$

$$2 - 5y = 1$$

$$y = \frac{1}{-10-5}$$

$$x = \frac{17}{-10-5}$$

$$\Rightarrow \begin{cases} x = \frac{17}{19} \\ y = -\frac{1}{19} \end{cases}$$