

Date: / /

Sat Sun Mon Tue Thu Wed Fri

Subject: مترادف قدری

$$A(2, 2), B(5, -1) \rightarrow m = \frac{2+1}{2-5} = -\frac{3}{3} = -1$$

$$y = -x + h \quad \rightarrow \quad y = -x + 18$$

$$y = -\frac{1}{3}x - \frac{1}{3} \quad , \quad A(2, 2) \rightarrow 2 = -\frac{1}{3}(2) + h \quad \rightarrow \quad y = -\frac{1}{3}x + \frac{14}{3}$$

$$y = \frac{1}{2}x + \frac{1}{2} \rightarrow m = \frac{1}{2} \quad , \quad A(2, 2) \rightarrow y = \frac{1}{2}x + h \quad \rightarrow \quad y = \frac{1}{2}x - 1$$

$$m = \tan 45^\circ = 1 \rightarrow y = x + h \rightarrow y = x - 4$$

$$A(2, 3), B(-1, 7) \rightarrow L = \sqrt{(2+1)^2 + (3-7)^2} = 5$$

$$A(2, 3), 3x + 4y - 7 = 0 \rightarrow L = \frac{|3(2) + 4(3) - 7|}{\sqrt{3^2 + 4^2}} = \frac{10}{5} = 2$$

$$A: 3x + 4y - 7 = 0 \quad B: 2x + 3y - 4 = 0 \quad \Rightarrow \quad 2x + 3y - 5 = 0$$

$$\frac{|K-K'|}{\sqrt{a^2+b^2}} = \frac{|1-4+4|}{\sqrt{3^2+4^2}} = \frac{1}{5} = \frac{1\sqrt{5}}{5}$$

$$\frac{3x-2y-1}{5} = \pm \frac{(2x+3y-4)}{5} \quad \begin{cases} x-5y+2=0 \\ 5x+y-4=0 \end{cases}$$

$$y = \frac{3}{5}x - \frac{1}{5} \quad y = -\frac{2}{5}x + \frac{4}{5} \quad \theta = \beta - \alpha \quad \tan(\theta) = \frac{-\frac{2}{5} - \frac{3}{5}}{1 - \frac{3}{5} \cdot \frac{3}{5}} = \frac{-\frac{5}{5}}{\frac{16}{25}} = -\frac{5}{16} \rightarrow \theta = 18.4^\circ$$

$$A(2, -2), B(-2, 4) \rightarrow L = \sqrt{(2+2)^2 + (-2-4)^2} = 10$$

$$L = 10$$

$$\rightarrow m_x = \frac{4-2}{-2-2} = -\frac{1}{2} \quad m_y = \frac{2-4}{-2-2} = 1 \quad \rightarrow m(-1, 1)$$

$$Gx = \frac{-1 + 3 - 2}{1} = -2, Gy = \frac{-1 + 3 + 1}{1} = -2 \Rightarrow (G(-2, -2)) \text{ (الف) } \quad 1.50$$

$$AB \text{ خط: } m = \frac{-2 - 2}{2 - 1} = -4 \rightarrow y = -4x + b \rightarrow y = -4x - 2 \quad (ب)$$

$$AB = \sqrt{(-2 - 2)^2 + 2^2} = \sqrt{20}$$

$$CH = \frac{|-1 + \frac{9}{2}(-1.0) + 2|}{\sqrt{1 + \frac{9}{4}}} = \frac{34}{\sqrt{29}} = \frac{\sqrt{2}}{\sqrt{29}}$$

$$S = \frac{\sqrt{2}}{\sqrt{29}} \times \sqrt{29} \times \frac{1}{2} = \frac{34}{2} = 17$$

$$8 = \frac{1}{2} \begin{vmatrix} 1 & 2 & 1 \\ -2 & 2 & 1 \\ -1 & -1 & 1 \end{vmatrix} = 17$$

$$-y = \frac{2x + 1}{x - 2} \rightarrow y = \frac{-2x - 1}{x - 2} \quad (الف) \quad 5$$

$$x \text{ کا قریب } \rightarrow y = \frac{-2x + 1}{-2x - 3} \quad (ب)$$

$$3 \text{ و } 2 \rightarrow \text{نیمسا} \rightarrow \text{بای } x \text{ و } y \text{ عوض} \rightarrow x = \frac{2y + 1}{2y - 3} \rightarrow y(2x - 2) = 2x + 1 \quad (ج)$$

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

$$2 \text{ و } 3 \rightarrow \text{نیمسا} \rightarrow -x = \frac{-2y + 1}{-2y - 3} \rightarrow 2xy + 3x = -2y + 1 \quad (د)$$

$$y(2x + 2) = 1 - 3x$$

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

$$x' = x - 2, y' = y + 2 \rightarrow x = x' + 2, y = y' - 2 \quad (الف) \quad 9$$

$$y' - 2 = \frac{2x' + 5 + 1}{x' + 1} \Rightarrow y' = \frac{2x' + 6}{x' + 1} + 2 = \frac{4x' + 8}{x' + 1} \quad 9$$

$$x' = x - 2, y' = y - 2 \rightarrow x = x' + 2, y = y' + 2$$

$$y' + 2 = \frac{2x' + 4 + 1}{x' + 2 - 2} \rightarrow y' = \frac{2x' + 5 - 2x'}{x'} = \frac{5}{x'}$$

$$\begin{cases} 3x + 2y = 2 \\ x - 2y = 1 \\ 2x + 15y = -3 \end{cases} \quad \text{ضرب}$$

$$19y = -1 \rightarrow y = -\frac{1}{19}$$

$$x + \frac{5}{19} = 1 \rightarrow x = +\frac{14}{19}$$

$$\begin{cases} 3x + 2y = 2 \\ x - 2y = 1 \end{cases} \quad \text{کرامر} \quad 1.50$$

$$x = -\frac{\begin{vmatrix} 2 & 2 \\ 1 & -2 \end{vmatrix}}{\begin{vmatrix} 3 & 2 \\ 1 & -2 \end{vmatrix}} = \frac{-(4 - 2)}{-6 - 2} = \frac{-2}{-8} = \frac{1}{4}$$

$$y = \frac{\begin{vmatrix} 3 & 2 \\ 1 & -2 \end{vmatrix}}{\begin{vmatrix} 3 & 2 \\ 1 & -2 \end{vmatrix}} = \frac{3 - 2}{-6 - 2} = \frac{-1}{-8} = \frac{1}{8}$$