

نقطه فروش

بازده تقریب

تکلیف ۱۵

الف

$$m = \frac{2+2}{2-5} = -\frac{4}{3}$$

$$y = -\frac{4}{3}x + b$$

$$y = -\frac{4}{3}x + 11$$

①

$$2 = -\frac{4}{3}(2) + b \quad b = 11$$

ب) $m = \frac{-4}{2} = -2$

$$y = -2x + b$$

$$y = -2x + 14$$

$$2 = -2(2) + b \quad b = 14$$

ج) $m_{n+cy=1} = -\frac{1}{\frac{1}{2}} = -2$

$$y = 2x + b$$

$$y = 2x - 10$$

$$2 = 2(2) + b \quad b = -10$$

د) $\tan \frac{\pi}{4} = \sqrt{2}$

$$y = \sqrt{2}x + b$$

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

$$2 = \sqrt{2}x + b \quad b = 2 - 4\sqrt{2}$$

۱۳۹۶/۳/۶ . هفته ۱۱ . شنبه

۱۴۳۸/۹/۱ . الاسبوع ۲۷ . السبت

S a t . Week 23 . 2017/5/27 .



خرداد

پنجمین

May 28. 2 رمضان الفارسی

الف $AB = \sqrt{\Delta x^2 + \Delta y^2} = \sqrt{3^2 + (-1)^2} = \sqrt{10} = \omega$ (1)

ب) $d_1 = \frac{|ax+by+c|}{\sqrt{a^2+b^2}} = \frac{|3(2)+1(-1)-1|}{\sqrt{3^2+1^2}} = \frac{10}{\omega} = \kappa$

الف) $2x+3y=4 \quad \times 2 \quad \rightarrow \quad 4x+6y=8$ $3x+4y=12$ $3x+4y + \frac{-12+8}{1} = 0$ (2)
 $3x+4y=12$
 $4x+6y-10=0$

ب) $d_2 = \frac{|C-C'|}{\sqrt{a^2+b^2}} = \frac{|12-8|}{\sqrt{4^2+6^2}} = \frac{4}{2\sqrt{13}} = \frac{2}{\sqrt{13}}$

$\frac{|2x-3y-1|}{\sqrt{2^2+(-3)^2}} = \frac{|2x+3y-1|}{\sqrt{2^2+3^2}} \Rightarrow |2x-3y-1| = |2x+3y-1|$ (3)

$2x-3y-1 = 2x+3y-1 \quad \rightarrow \quad -6y = 0 \quad \rightarrow \quad y = 0$
 $2x-3y-1 = -(2x+3y-1) \quad \rightarrow \quad 2x-3y-1 = -2x-3y+1 \quad \rightarrow \quad 4x = 2 \quad \rightarrow \quad x = \frac{1}{2}$

$y+2x=2 \quad y-2x=2 \quad \tan \alpha = \left| \frac{m-m'}{1+mm'} \right|$ (4)
 $\rightarrow m=-2 \quad \rightarrow m=2$

$\left| \frac{-2-2}{1+(-2)(2)} \right| = 1$

$\tan \alpha = 1$
 $\alpha = \arctan 1 = \frac{\pi}{4}$

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
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الف) $AB = \sqrt{(5+3)^2 + (-2-4)^2} = \sqrt{64+64} = 10$ ④

ب) $\left(\frac{3-5}{2}, \frac{-2+4}{2}\right) = (-1, 1)$

الف) $m = \frac{3-2-10}{3} = -3$ $y = \frac{1+3-13}{3} = -3$ ⑤
(-3, -3)

ب) $S = \frac{1}{2} \begin{vmatrix} 3 & 1 & 1 \\ -2 & 3 & 1 \\ -10 & -13 & 1 \end{vmatrix} = \frac{1}{2} \times 96 = 48$ ⑥

الف) $-y = \frac{2n+1}{5n-2} \Rightarrow y = \frac{2n+1}{2-5n}$ ⑦

ب) $y = \frac{2n+1}{5n-2}$ ج) $n = \frac{2y+1}{5y-2} \Rightarrow y = \frac{2n+1}{5n-2}$

د) $-n = \frac{-2y+1}{-5y-2} \Rightarrow y = \frac{2n-1}{-5n-2}$

الف) $y' - 2 = \frac{2n' + 5}{n' - 1} \rightarrow y' = \frac{2n' + 5}{n' - 1} + 2$ ⑧

$y' = \frac{2n' + 5 + 2n' - 2}{n' - 1} = \frac{4n' + 3}{n' - 1} = y'$

ب) $y + 2 = \frac{2n' + 5}{n'}$ $y' = \frac{2n' + 5 - 2n'}{n'}$

$y = \frac{5}{n'}$

الف

$$\begin{cases} 12x + 8y = 1 \\ 12x - 5y = 1 \end{cases}$$

$$12x - 5y = 1$$

$$\begin{cases} 12x + 8y = 1 \\ -12x + 15y = -1 \end{cases}$$

$$-12x + 15y = -1$$

$$19y = -1$$

$$b) \quad x = - \frac{8x + 1 - 12x - 5}{12x - 5 - 8x + 1} = \frac{14}{19}$$

$$y = - \frac{1}{19}, \quad x = \frac{14}{19}$$

$$y = \frac{12x + 1 - 12x - 5}{12x - 5 - 8x + 1} = - \frac{1}{19}$$