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$$\frac{y-12}{x-5} = \frac{4}{-1} = -4$$

$$y = -4x + 18$$

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

$$y = -2x + 14$$

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

$$y = 2x - 10$$

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

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

$$2x + 4y - 2 = 0$$

$$\frac{|4+12-2|}{5} = \frac{14}{5} = 2.8$$

$$2x + 4y = 1$$

$$2x + 4y = 12$$

$$2x + 4y = \frac{y}{x} \Rightarrow 2x + 4y = 10$$

$$\begin{cases} 2x + 4y = 1 \\ 2x + 4y = 12 \end{cases}$$

$$\frac{4}{\sqrt{20}}$$

$$\frac{|2x+4y-1|}{\sqrt{20}} = \frac{|2x+4y-12|}{\sqrt{20}} \Rightarrow |2x+4y-1| = |2x+4y-12|$$

$$2x+4y-1 = 2x+4y-12 \Rightarrow 0 = -11$$

$$2x+4y-1 = -(2x+4y-12) \Rightarrow 4x+8y=13$$

$$\tan \alpha = \left| \frac{a}{-a} \right| \Rightarrow 1$$

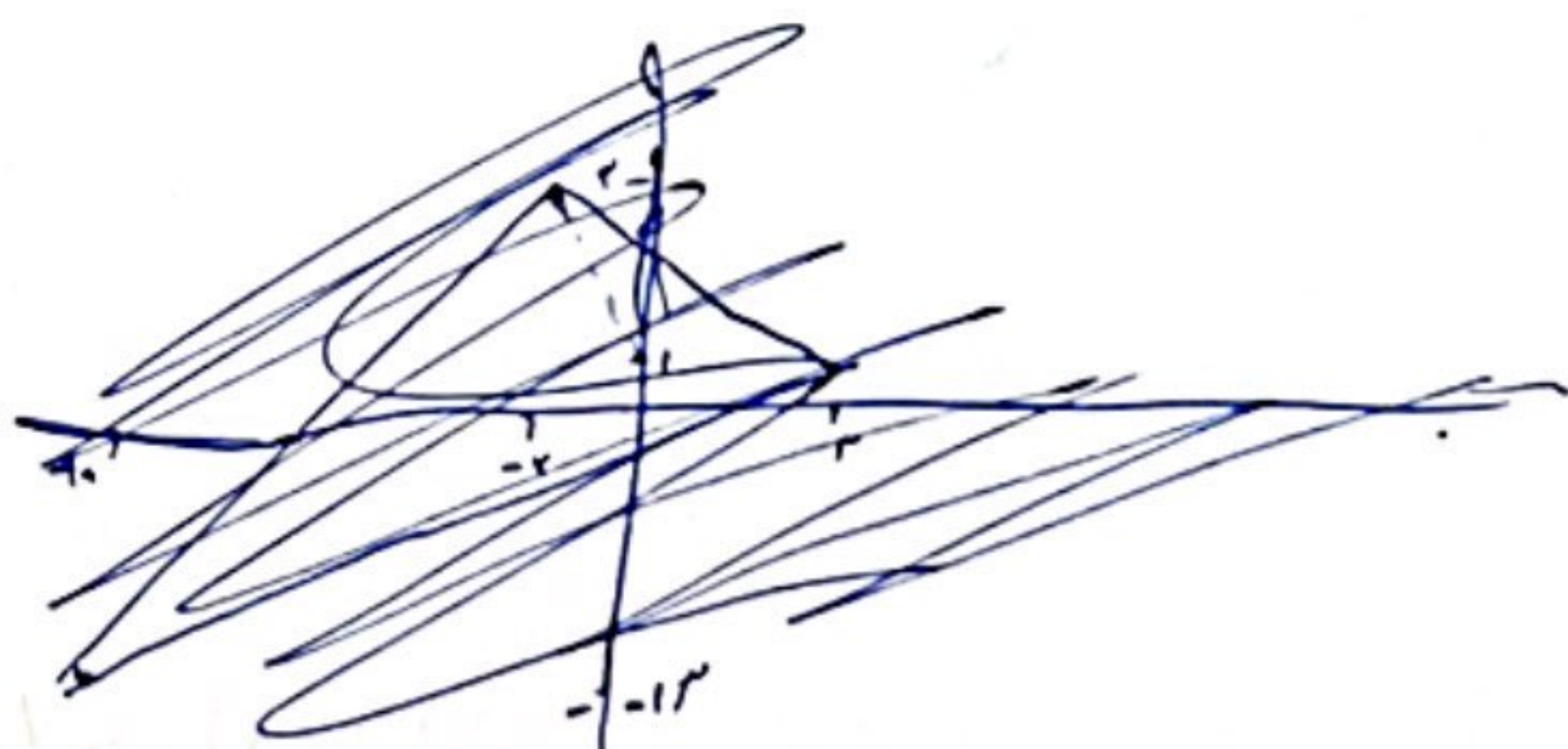
$$y = -2x + 2$$

$$y = 2x + a$$

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

$$\sqrt{1^2 + 4^2} = \sqrt{17}$$

$$\begin{pmatrix} 1 \\ -1 \end{pmatrix}$$



$$\begin{pmatrix} 1 \\ -1 \end{pmatrix}$$

$$\vec{AB} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$\vec{AC} = \begin{pmatrix} -1 \\ 1 \end{pmatrix} \quad \frac{1}{2} \begin{vmatrix} -a & 2 \\ -1 & -1 \end{vmatrix} = 1$$

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

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

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

(c)

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

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$$\frac{x'}{y'} = \frac{x - r}{y + r} \Rightarrow x = x' + r$$

$$y = y' - r \Rightarrow y = y' - r$$

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

(ج) -

$$x' = x - r \Rightarrow x = x' + r$$

$$y' = y - r \Rightarrow y = y' + r$$

$$y' + r = \frac{r(x' + r) + 1}{x'}$$

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$$\begin{cases} r^2 x + r^2 y = r \Rightarrow r^2 x + r^2 y = r \\ -r^2 x - r^2 y = 1 \Rightarrow -r^2 x + r^2 y = r^2 \end{cases} \quad \begin{matrix} 17y = -r \\ -\frac{1}{19} \end{matrix} \quad x = \frac{15}{19}$$

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$$x = \frac{\begin{vmatrix} r & r \\ -r & 1 \end{vmatrix}}{\begin{vmatrix} r^2 & r^2 \\ -r^2 & r^2 \end{vmatrix}} = \frac{+1r}{-19} = \frac{15}{19}$$

$$y = \frac{\begin{vmatrix} r & r \\ 1 & 1 \end{vmatrix}}{\begin{vmatrix} r^2 & r^2 \\ -r^2 & r^2 \end{vmatrix}} = \frac{-1}{-19} = -\frac{1}{19}$$

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