

$$\text{Slope of AC} = \frac{(-3) - y}{4 - x}$$

$$\frac{(-3) - y}{4 - x} \times (-1) = -1$$

$$y + 3 = x - 4$$

$$x - y - 7 = 0$$

$$\begin{cases} 3x - 5y + 31 = 0 \\ 5x - 5y - 35 = 0 \end{cases}$$

$$x = 33$$

$$y = 26$$

Coordinates of the last vertex! (33, 26)