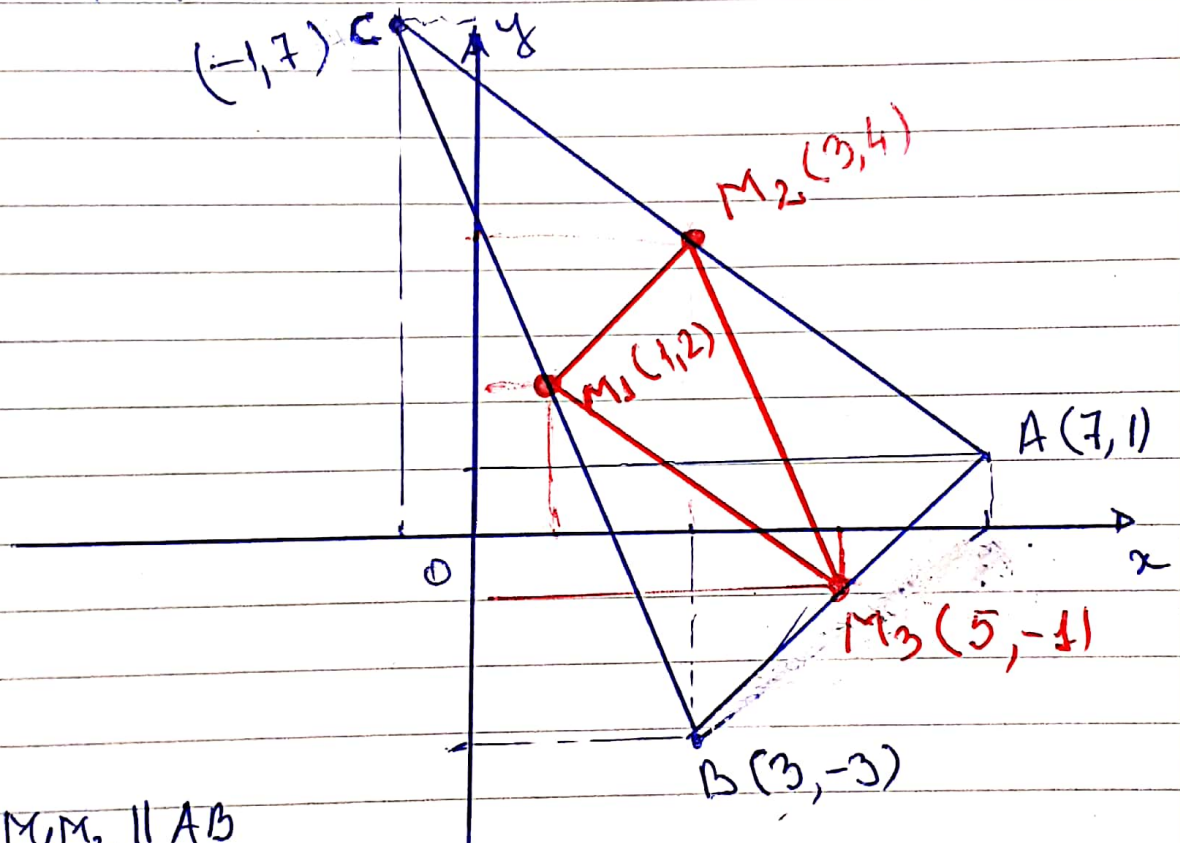


Model Subiect Geometrie Matematică 2021

Varianța 2.

Se dau mijloacele $M_1(1,2)$, $M_2(3,4)$, $M_3(5,-1)$ ale laturilor unui triunghi. Determinați ecuațiile laturilor.



$$M_1M_2 \parallel AB$$

$$m_{AB} = m_{M_1M_2} = \frac{2}{2} = 1 \Rightarrow AB: y+1 = x-5$$

$$\Rightarrow AB: \boxed{x - y - 6 = 0}$$

$$m_{BC} = m_{M_2M_3} = \frac{-1-4}{5-3} = -\frac{5}{2} \Rightarrow BC: y-2 = -\frac{5}{2}(x-1)$$

$$\Rightarrow BC: \boxed{5x + 2y - 9 = 0}$$

$$m_{CA} = m_{M_1M_3} = \frac{-1-2}{5-1} = -\frac{3}{4} \Rightarrow CA: y-4 = -\frac{3}{4}(x-3)$$

$$\Rightarrow \boxed{CA: 3x + 4y - 25 = 0}$$