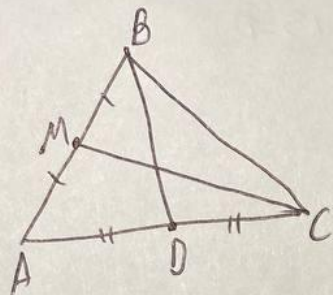


№ 2. 176



$$BD: 5x + 4y = 0$$

$$CM: 3x - y = 0$$

$$] A = (-5; 2)$$

$$\angle B = (x; -\frac{5}{4}x) \quad M \in [AB] \Rightarrow M = (\frac{-5+x}{2}; 1 - \frac{5}{8}x)$$

$$M \in (CM) \Rightarrow \frac{-15+3x}{2} - 1 + \frac{5}{8}x = 0 \Leftrightarrow \frac{17}{8}x = \frac{17}{2} \Leftrightarrow x = 4$$

$$\Rightarrow B = (4; -5)$$

$$\angle C = (x; 3x) \quad D \in [AC] \Rightarrow D = (\frac{-5+x}{2}; 1 + \frac{3}{2}x)$$

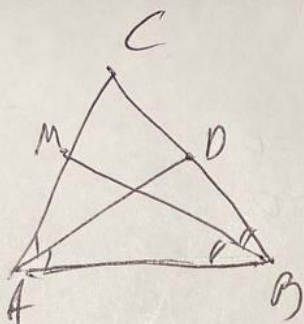
$$D \in (BD) \Rightarrow \frac{-25+5x}{2} + 4 + 6x = 0 \Leftrightarrow x = 1$$

$$\Rightarrow C = (1; 3)$$

$$AB: \frac{x+5}{9} = \frac{y-2}{-7}$$

$$BC: \frac{x-4}{-3} = \frac{y+5}{8}$$

$$CA: \frac{x-1}{-6} = \frac{y-3}{-7}$$



№2. 777

$$AB: 4x + 3y = 0$$

$$AD: 7x + 4y + 5 = 0$$

$$BM: y + 4 = 0$$

A:

$$A \in (AB) \Rightarrow$$

$$4x + 3y = 0 \Rightarrow x = -\frac{3y}{4}$$

$$A \in (AD) \Rightarrow -\frac{27}{4}y + 4y + 5 = 0 \Rightarrow y = 4$$

$$\Rightarrow A = (-3; 4)$$

B:

$$B \in (AB) \Rightarrow 4x + 3y = 0 \Rightarrow x = -\frac{3}{4}y$$

$$B \in (BM) \Rightarrow y + 4 = 0 \Rightarrow y = -4$$

$$\Rightarrow B = (3; -4)$$

A' - центр A отн BM и A' =  $(-3; -12)$  &

A' ∈ BC м.к. BM-диаг.

Найдем B' - центр B отн AD

$$AD: 7x + 4y + 5 = 0 \Rightarrow 4y = -7x - 5 \Rightarrow y = -\frac{7}{4}x - \frac{5}{4} \Rightarrow$$

$\Rightarrow k' = \frac{4}{7}$  заменим угл. не равной с k' и  
пропорции через м. B:  $y + 4 = \frac{4}{7}(x - 3) \Rightarrow$

$$\Rightarrow y = \frac{4}{7}x - \frac{40}{7} \Rightarrow B' = \left(\frac{25}{13}; -\frac{60}{13}\right)$$

$$AB: \frac{x+3}{6} = \frac{y-4}{-8} \quad BC: \frac{x-3}{-6} = \frac{y+4}{-8}$$

$$AC: \frac{x+3}{\frac{64}{13}} = \frac{y-4}{-\frac{112}{13}} \Rightarrow \frac{x+3}{64} = \frac{y-4}{-112}$$