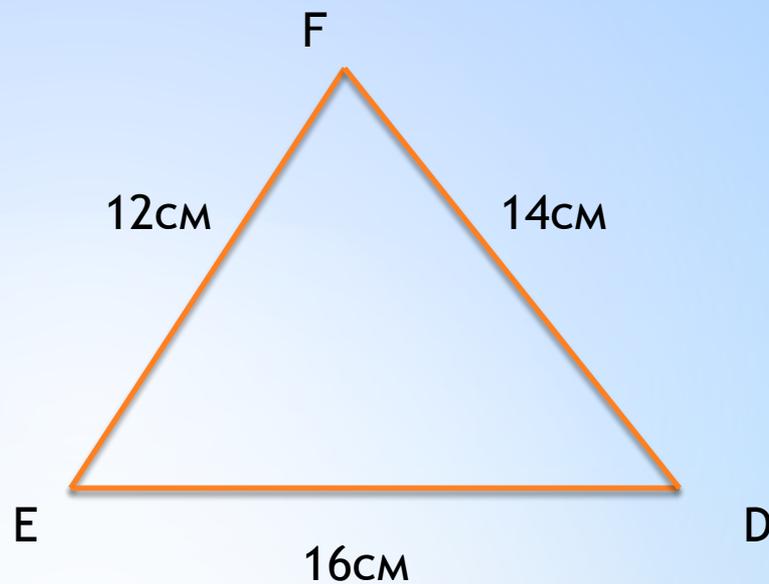
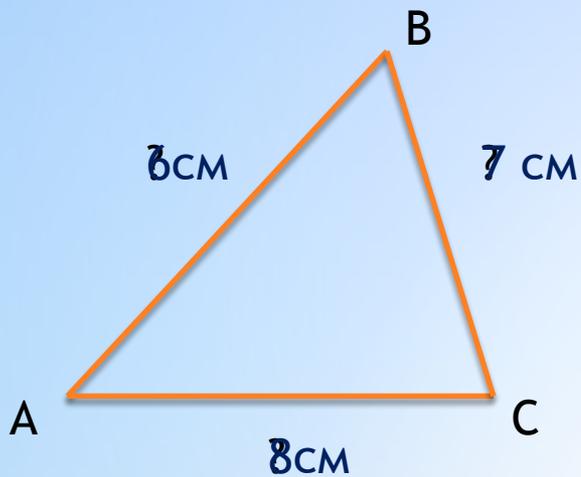


Подобие треугольников



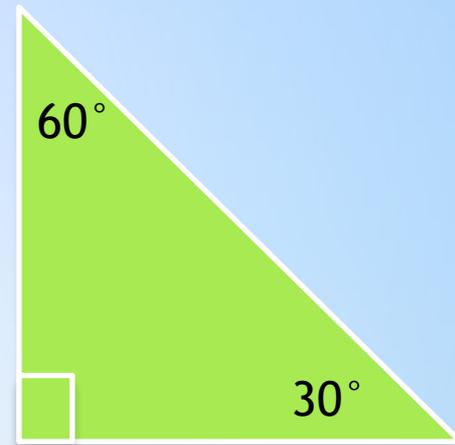
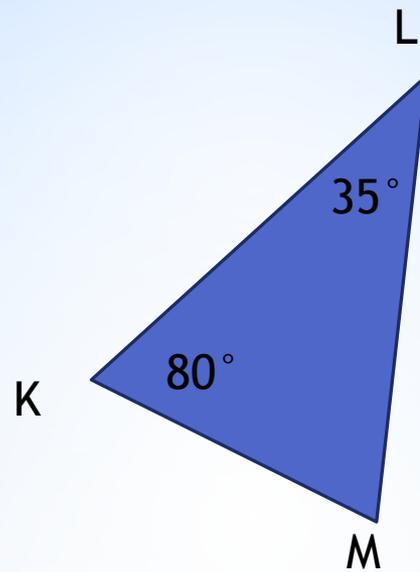
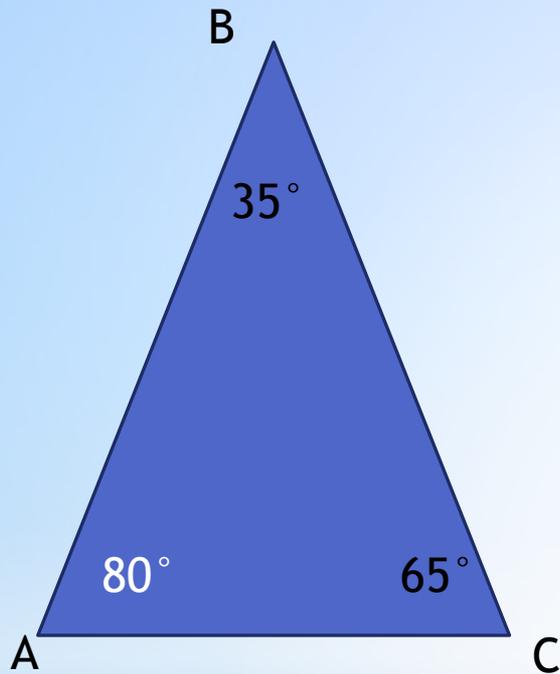


Дано:

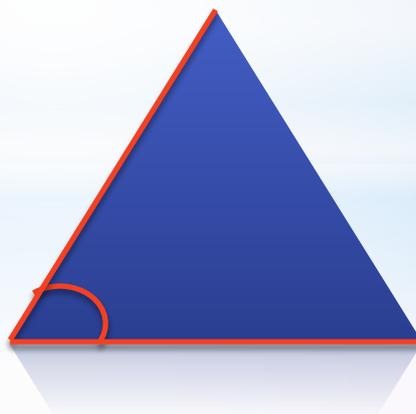
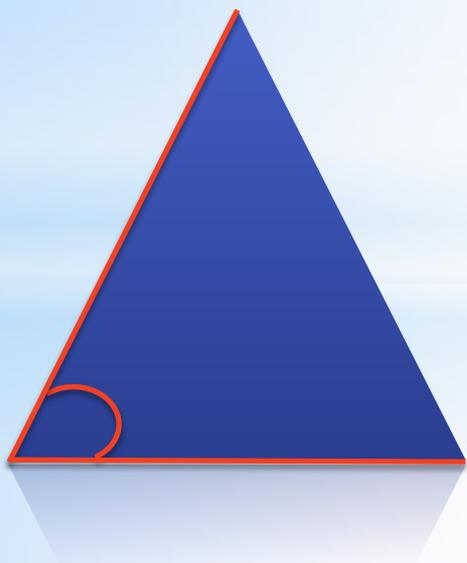
$$\frac{EF}{AB} = \frac{2}{1};$$

$\triangle ABC$

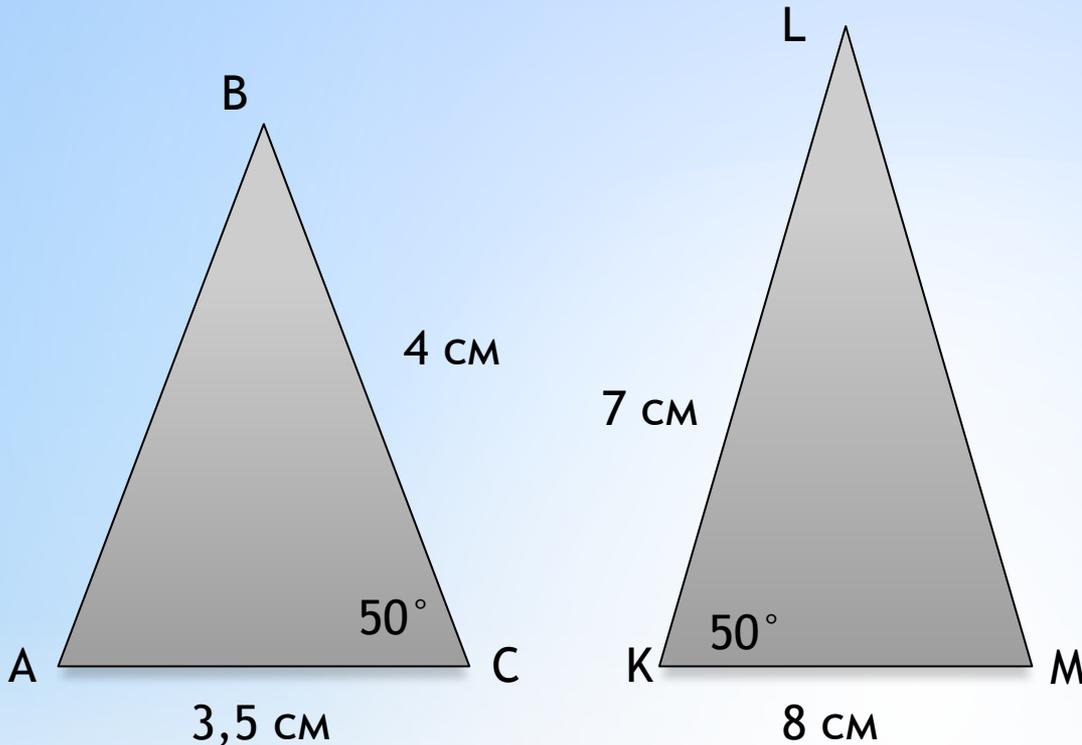
Подобны ли треугольники?



Второй признак подобия треугольников



Докажите подобие треугольников

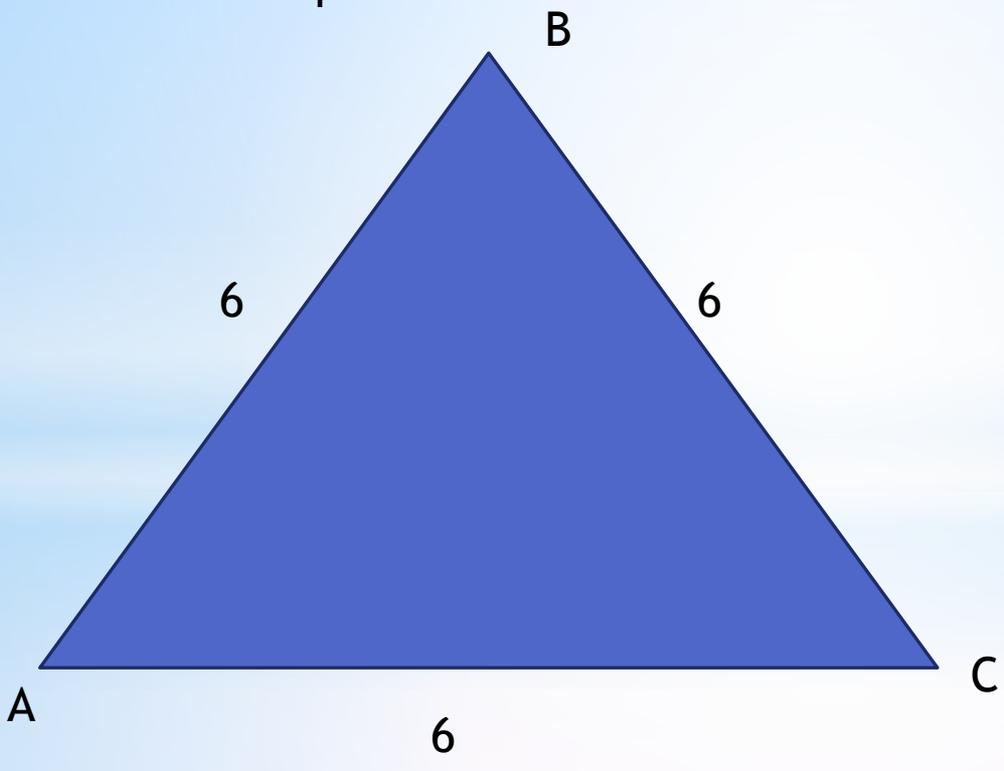
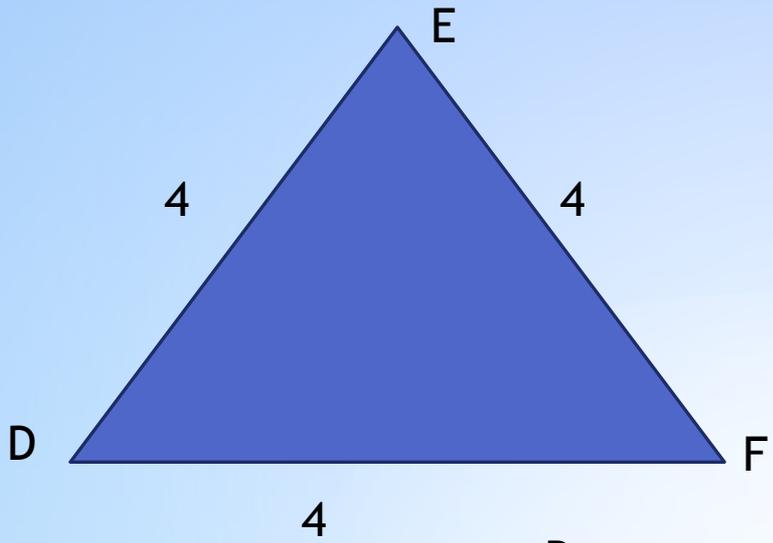


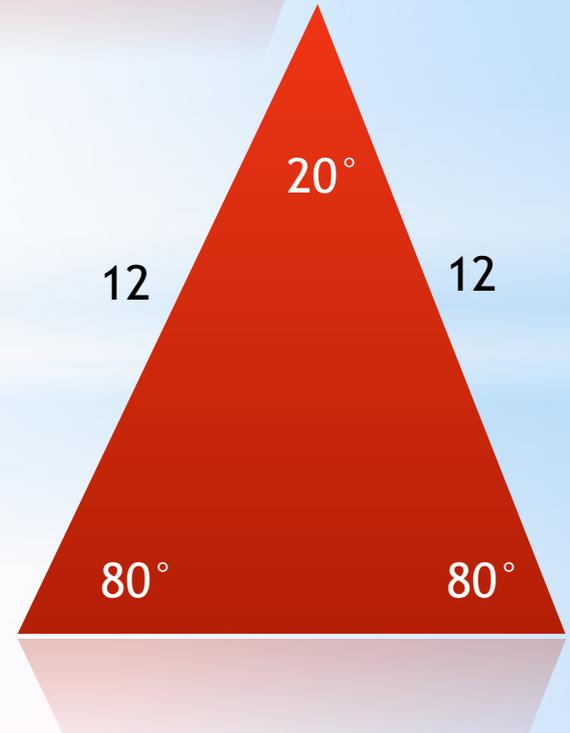
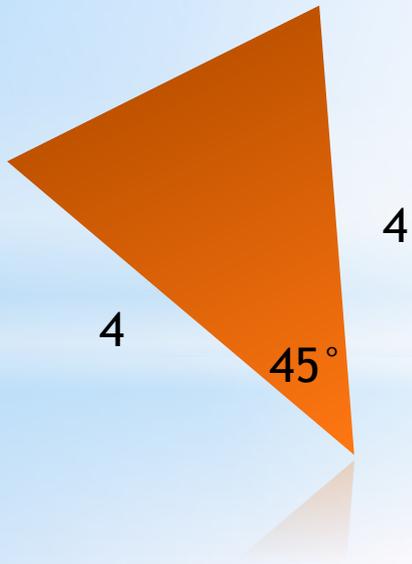
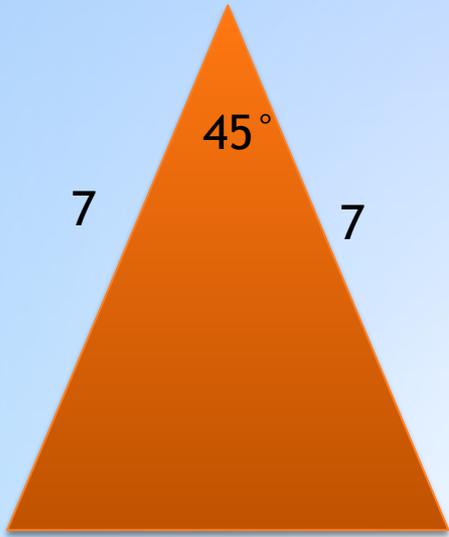
$$\angle C = \angle K$$

$$\frac{KM}{BC} = \frac{8}{4} = 2$$

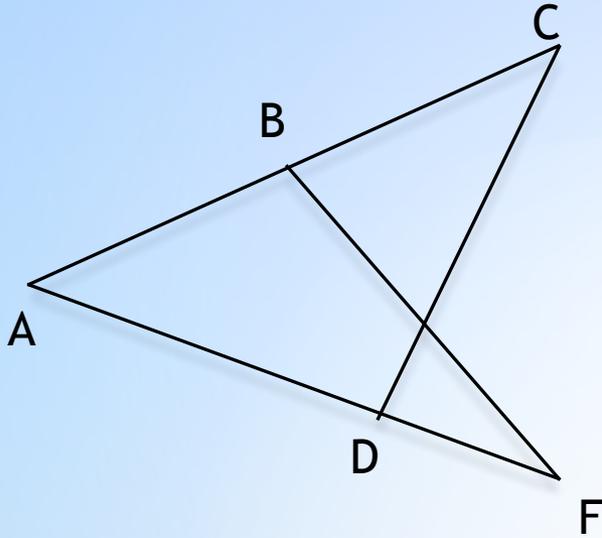
$$\frac{KL}{AC} = \frac{7}{3,5} = 2$$

→ $\triangle KLM \sim \triangle ABC$





№ 559



Док - во:

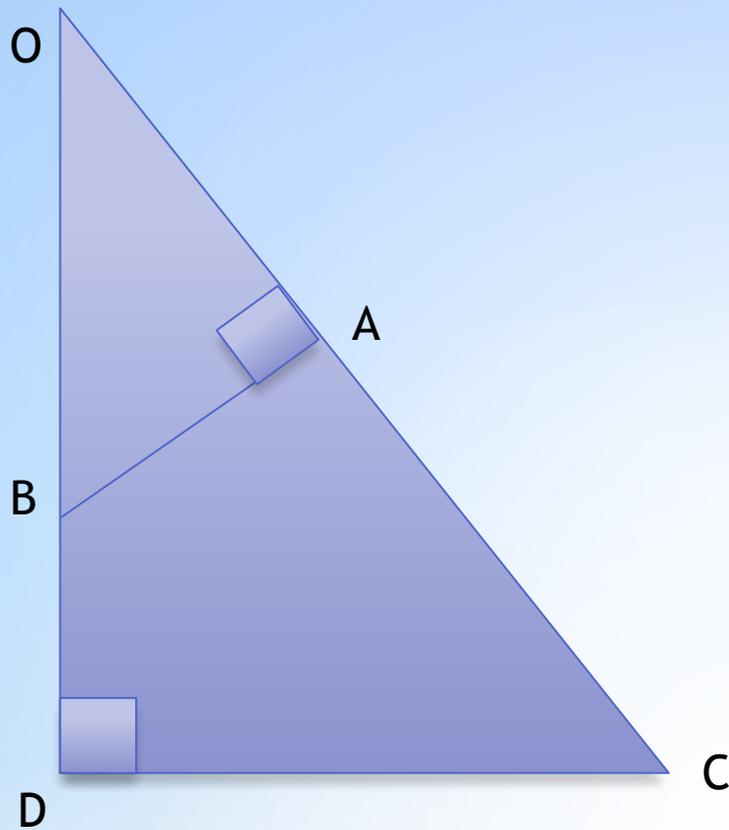
$\angle A$ – общий

$$\frac{AC}{AD} = \frac{16}{8} = 2$$

$$\frac{AF}{AB} = \frac{10}{5} = 2$$



$\triangle ADC \sim \triangle ABF$ по второму признаку подобия



Дано:

$$OA = 6 \text{ см}, AC = 15 \text{ см}$$

$$OB = 9 \text{ см}, BD = 5 \text{ см}$$

$$AB = 12 \text{ см}$$

Найти: CD

Решение:

$$\frac{CD}{AB} = \frac{OC}{OB}$$

$$\frac{CD}{12} = \frac{6+15}{9}$$

$$CD = \frac{12 \cdot 21}{9} = 28 \text{ см}$$

Д.3.
п.60
№ 604