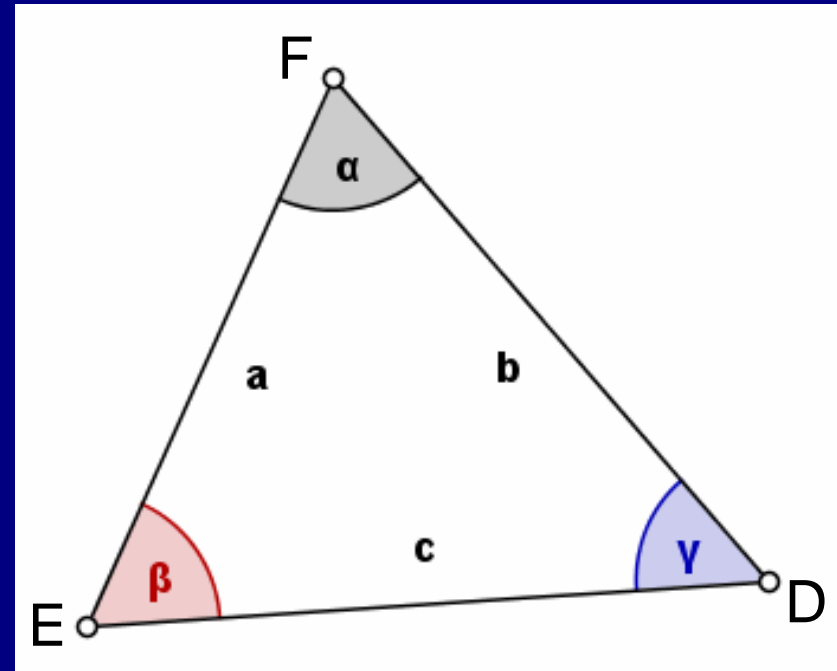
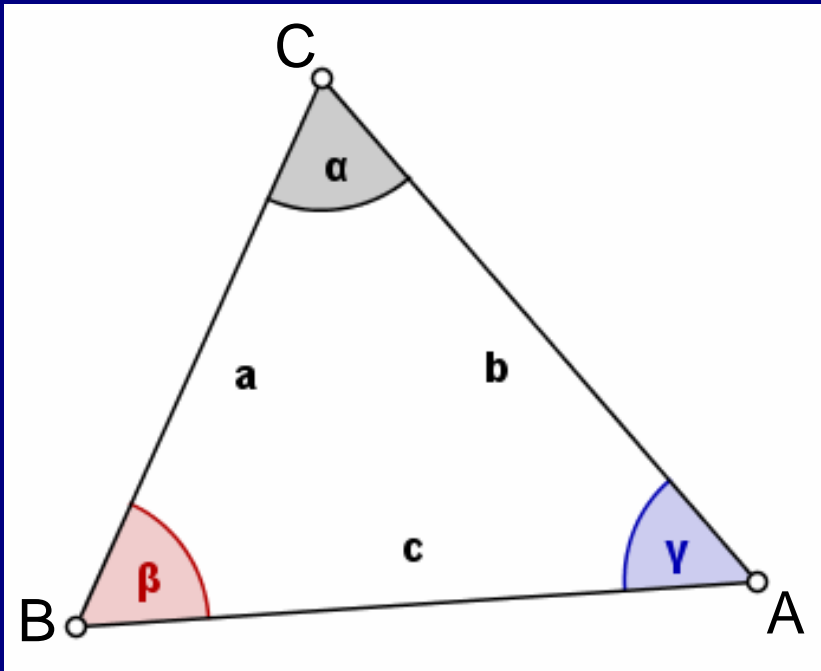


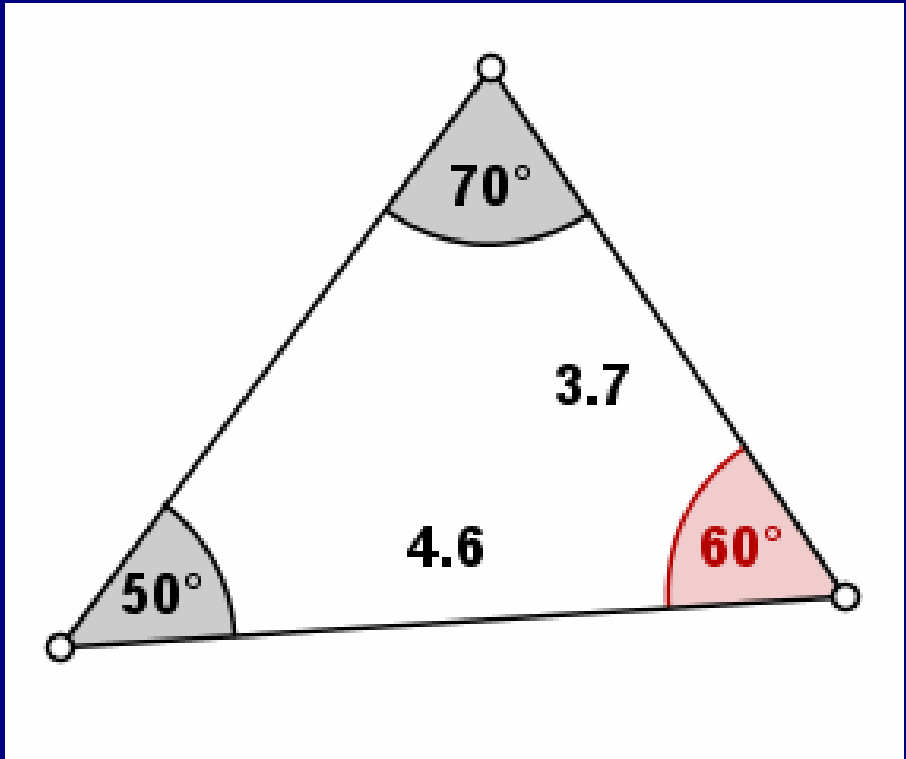
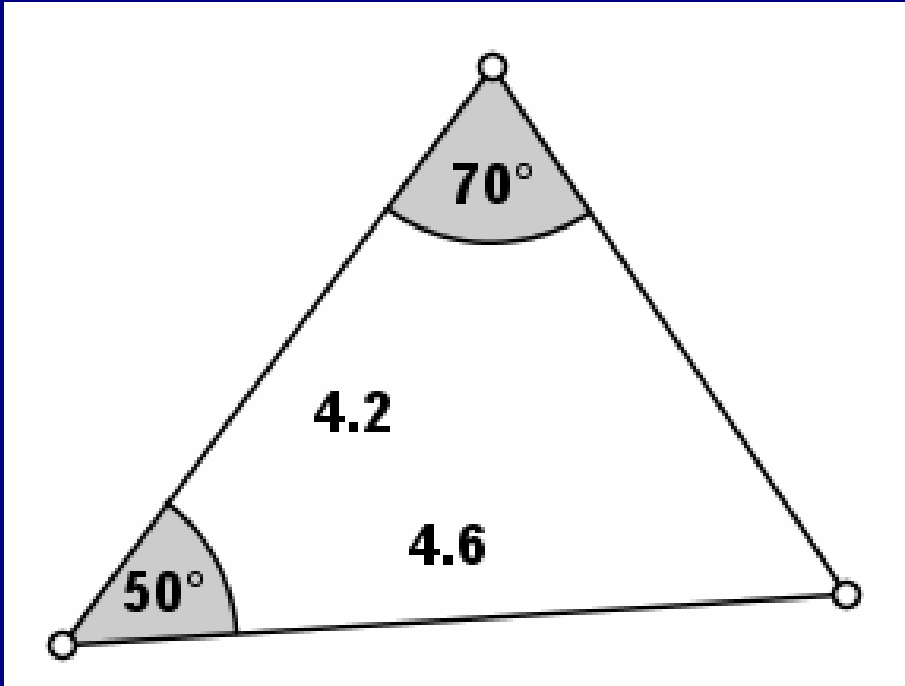
Congruência de triângulos

Dois triângulos são ditos congruentes se possuem lados correspondentes iguais e ângulos internos correspondentes iguais.



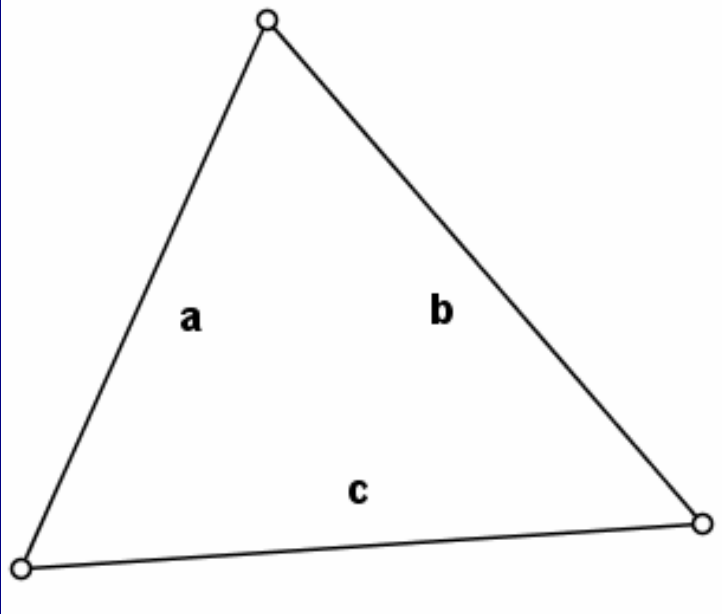
$$\triangle ABC \cong \triangle DEF$$

Para detectarmos se dois triângulos são semelhantes basta três informações das 6 totais. Observe:

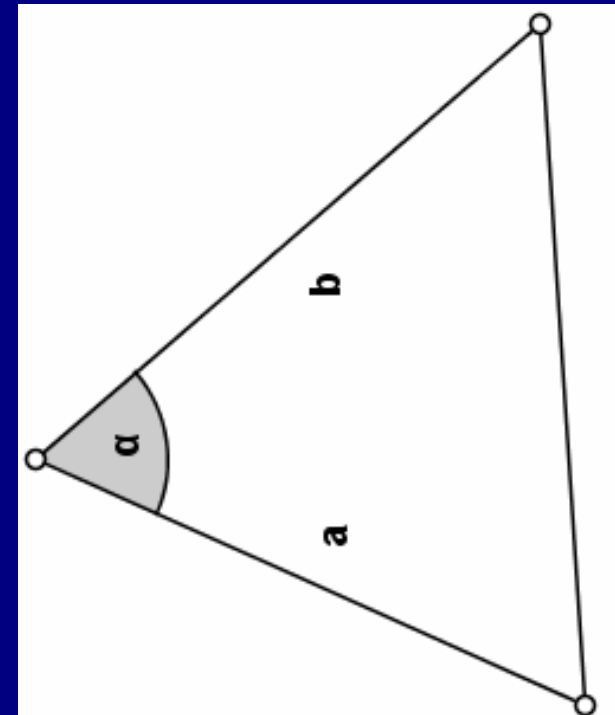
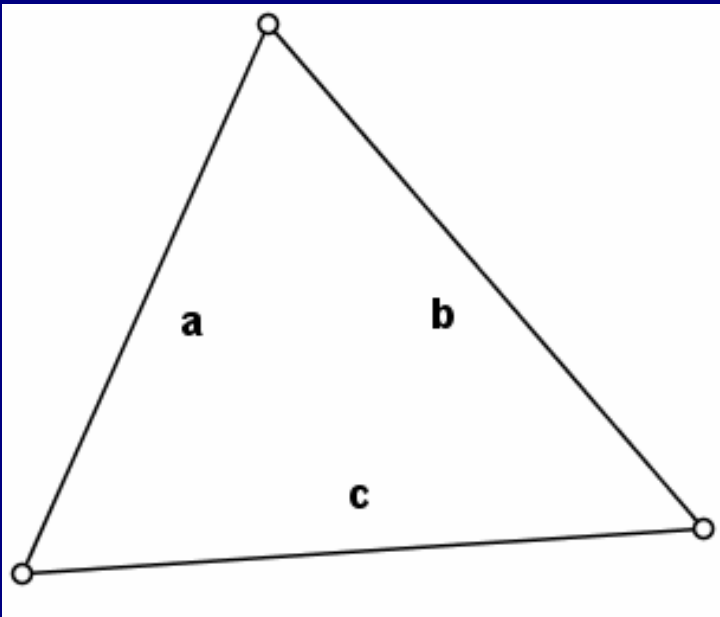
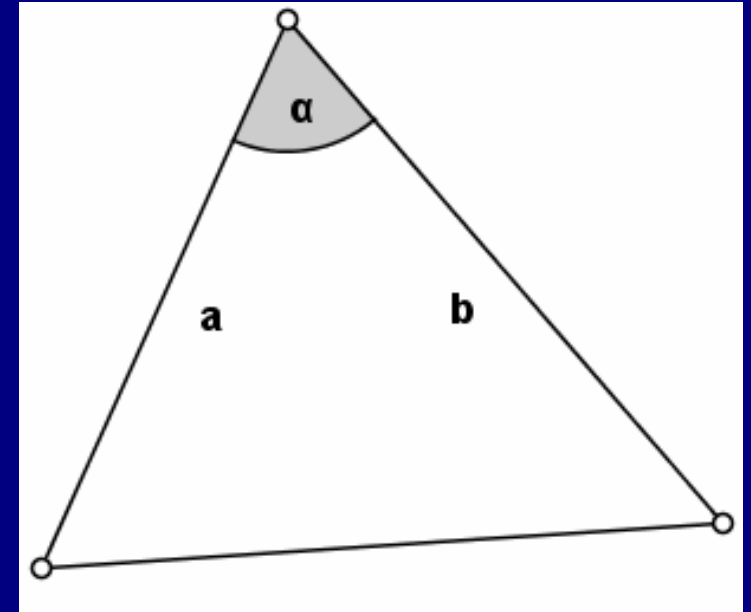


Casos de congruência

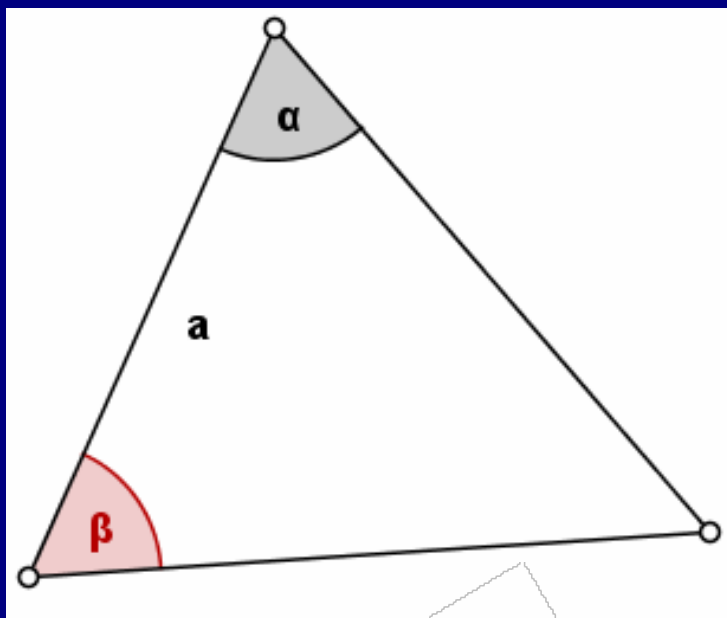
1º caso: **LLL (Lado, lado, lado)**



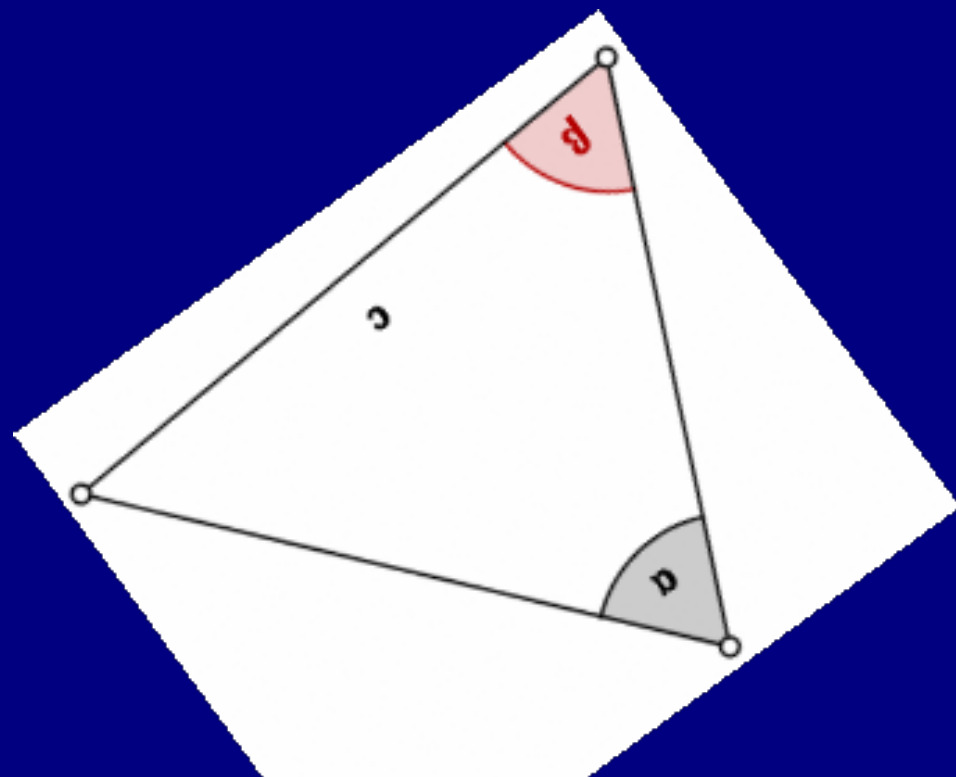
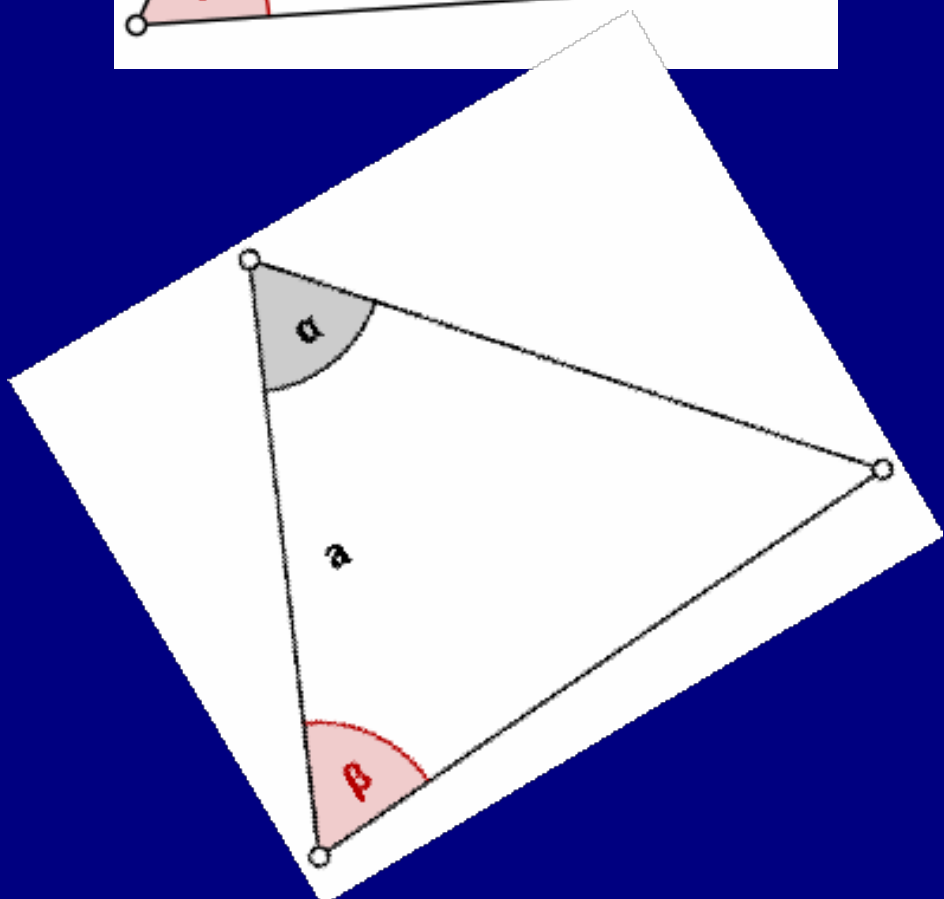
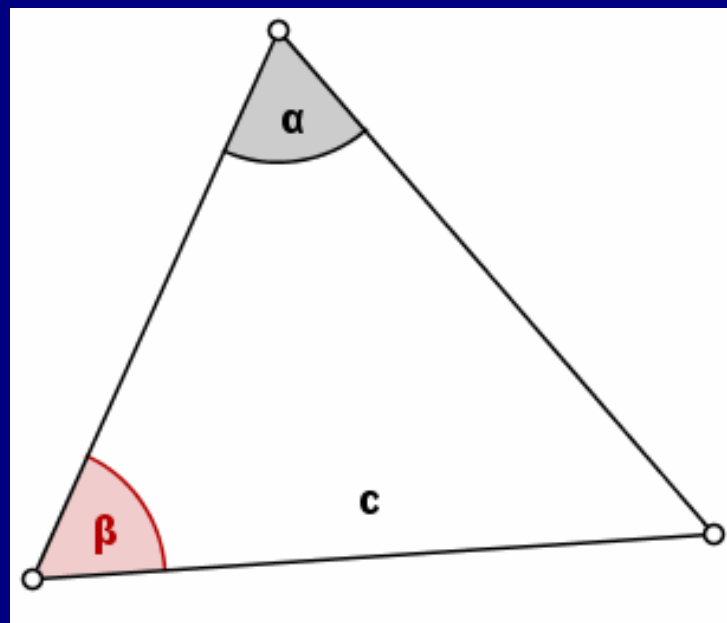
2º caso: **LAL (Lado, ângulo, lado)**



3º caso: ALA (Ângulo, lado, ângulo)

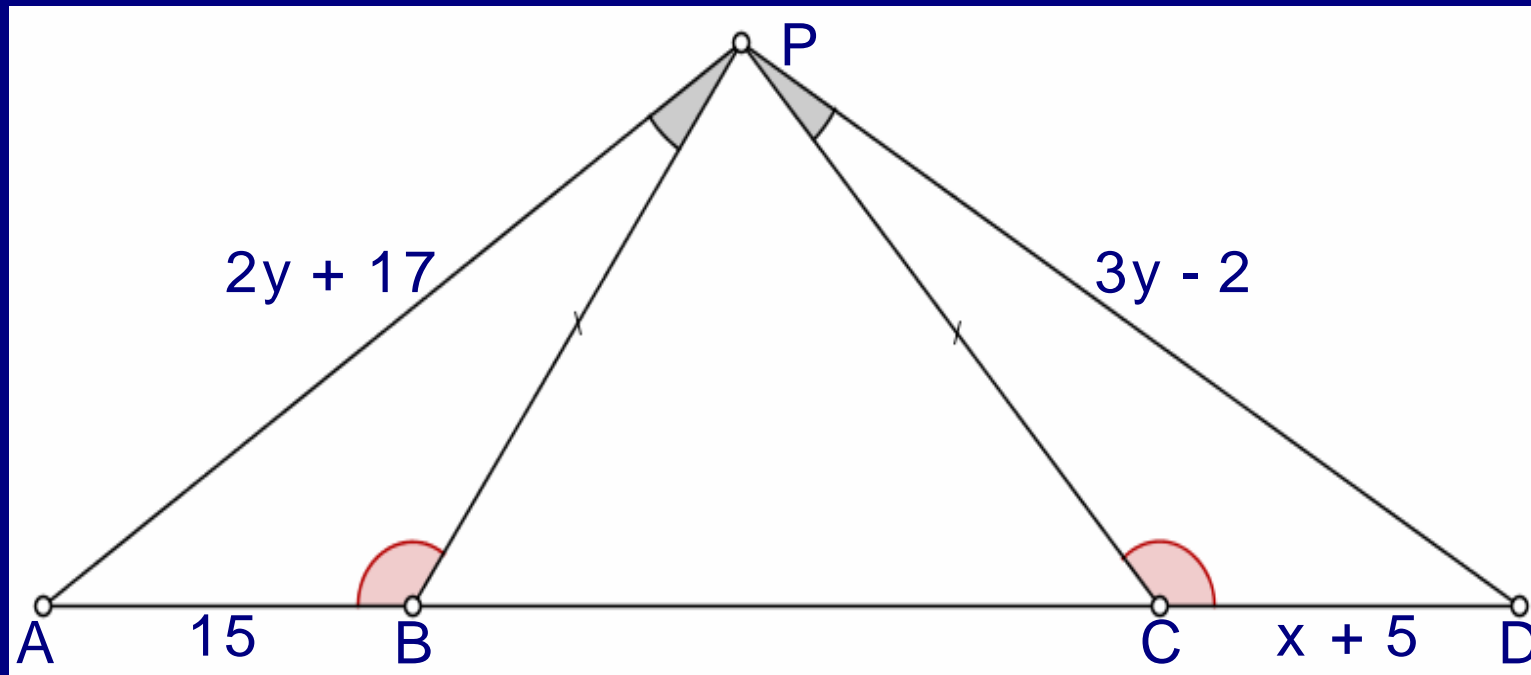


4º caso: LAA (Lado, ângulo, ângulo oposto ao lado)



Questão 1 -

$\triangle PCD \cong \triangle PBA$, $AB = 15$, $CD = x + 5$, $AP = 2y + 17$ e $PD = 3y - 2$



$$x + 5 = 15$$

$$x = 15 - 5$$

$$x = 10$$

$$2y + 17 = 3y - 2$$

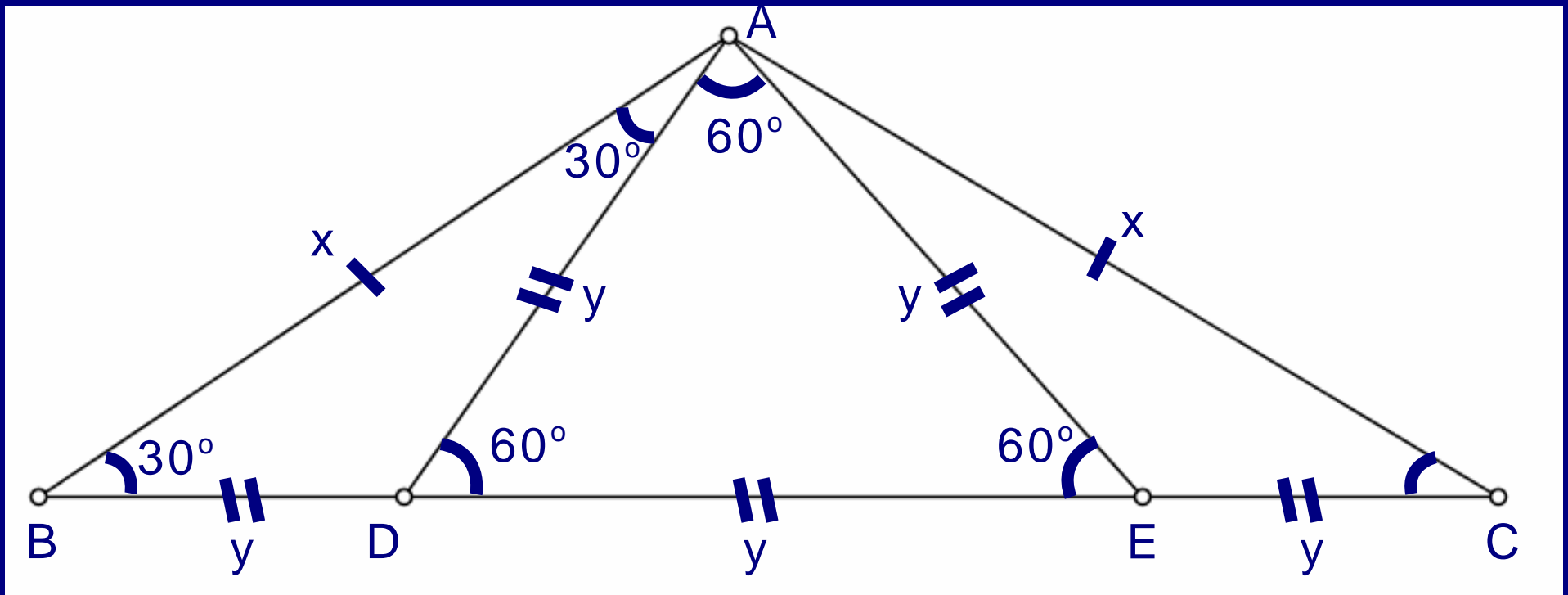
$$2y - 3y = -2 - 17$$

$$-y = -19 \quad \times (-1)$$

$$y = 19$$

$$\frac{y}{x} = \frac{19}{10}$$

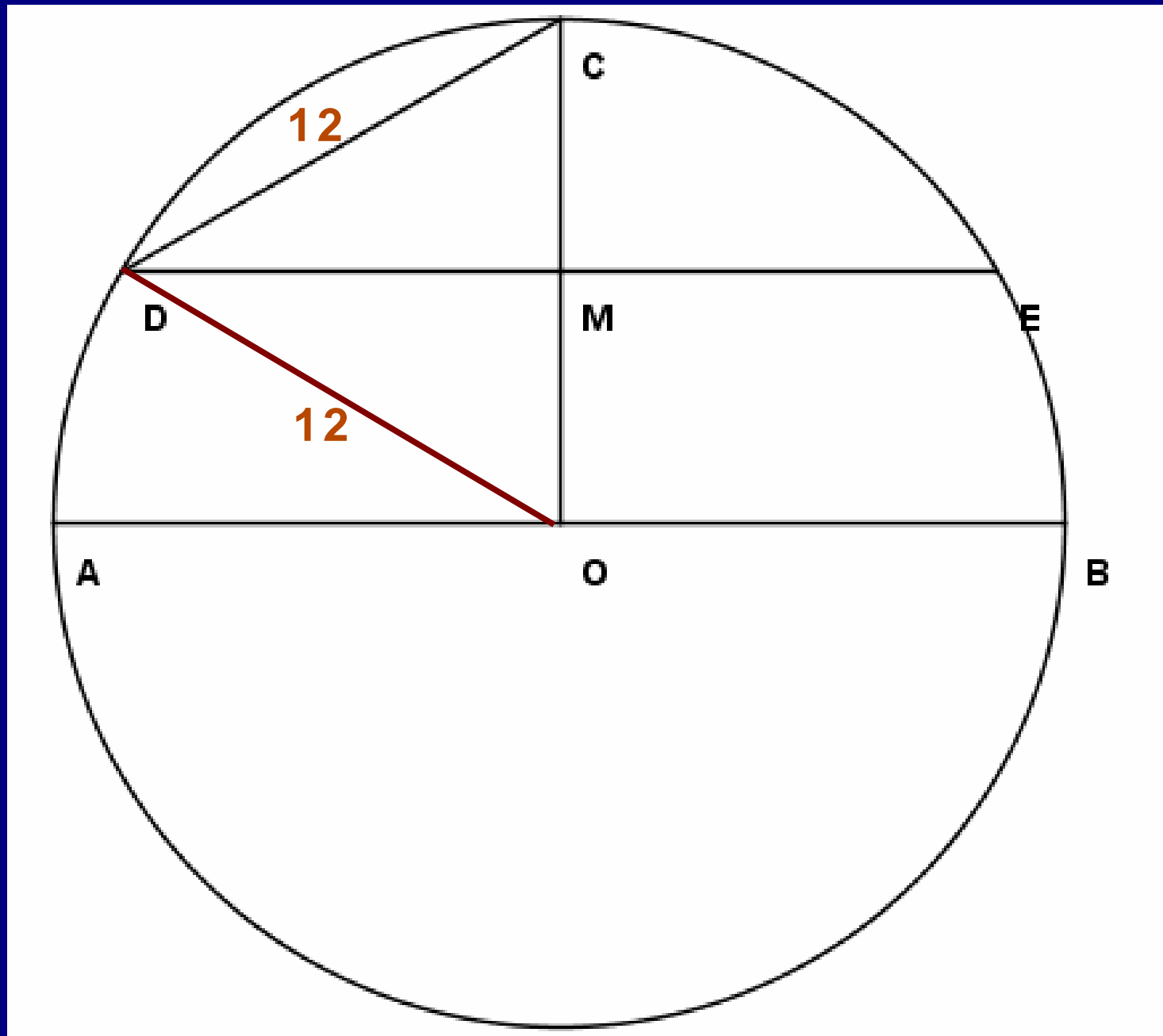
Questão 3 - $AB = AC$, $BD = DE = EC$ e $\angle BAD = \angle ABD$. $\angle ABD = ???$



- a) 20°
- b) $22^\circ 30'$
- c) 25°
- d) 30°**
- e) $37^\circ 30'$

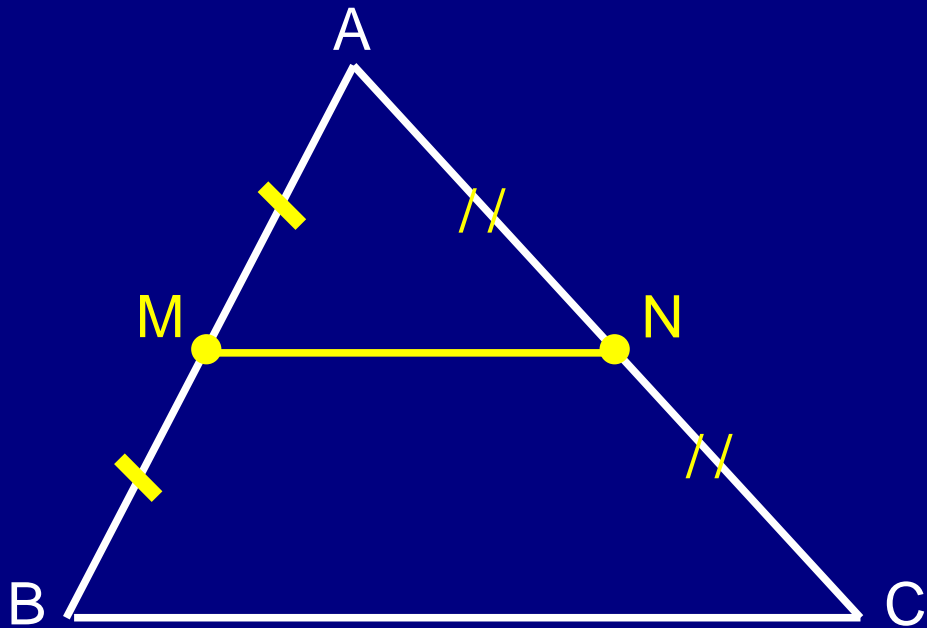
Questão 4 - raio = 12 , $OC \perp AB$, $DE \parallel AB$ e M ponto médio de OC e DE. A medida de DC é:

- a) 8
- b) 9
- c) 10
- d) 11
- e) 12**



Base média de um triângulo

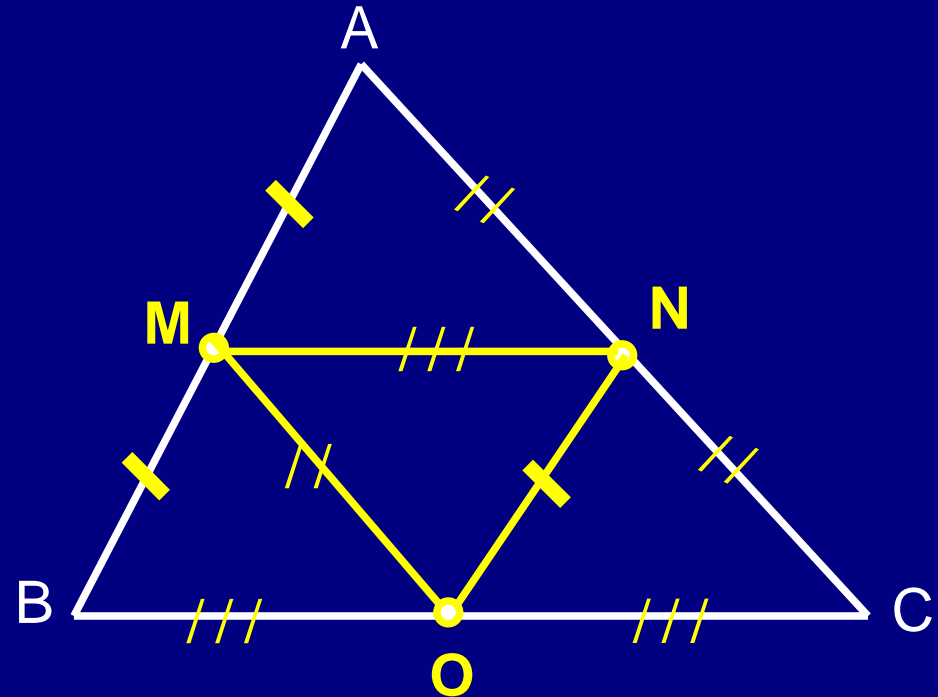
Segmento de reta que liga dois pontos médios de um triângulo.



$$MN \parallel BC$$

$$MN = \frac{BC}{2}$$

ou seja, a base média é igual a metade do valor do lado paralelo.



Questão 5 -

- a) $AB / 2$
- b) $5AB / 2$
- c) $AB / 4$
- d) $AB / 3$
- e) $AB / 2$

