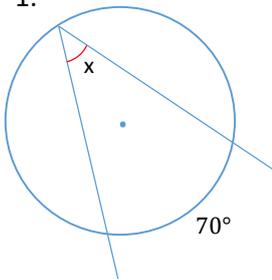




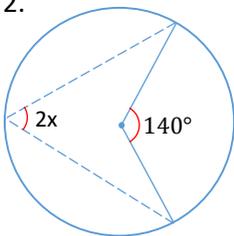
## Exercícios: Circunferência

Determine o valor de  $x$  em cada caso:

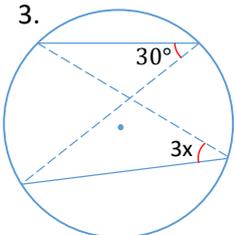
1.



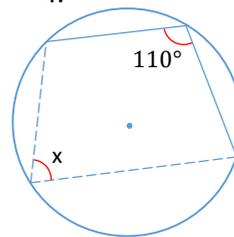
2.



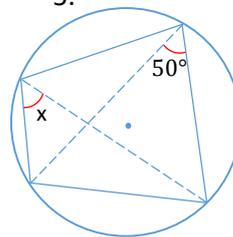
3.



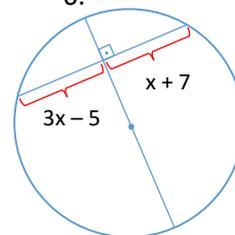
4.



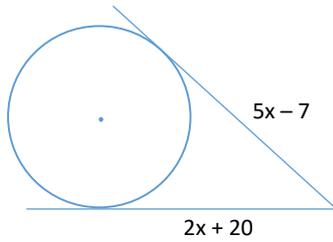
5.



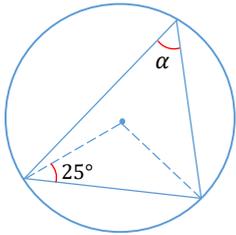
6.



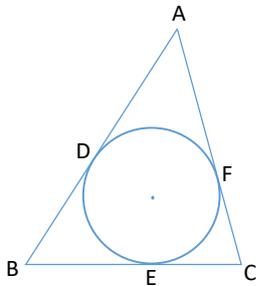
7.



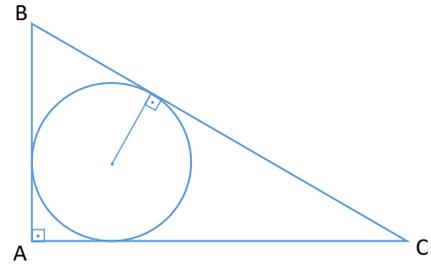
8. Encontre o valor de  $\alpha$ :



9. Na figura, o círculo de centro  $O$  é inscrito no triângulo  $ABC$ .  $BD = 4$ ,  $AF = 3$  e  $EC = 5$ . Qual é o perímetro do triângulo  $ABC$ ?



10. Na figura, calcule a medida do raio  $r$  da circunferência inscrita no triângulo retângulo  $ABC$ , sendo  $AB = 10$  cm,  $AC = 24$  cm e  $BC = 26$  cm.



11. A distância entre os centros de duas circunferências tangentes exteriormente é de 33 cm. Determine seus diâmetros, sabendo que a razão entre seus raios é  $\frac{4}{7}$ .

12. A distância entre os centros de duas circunferências tangentes internamente é 5 cm. Se a soma dos raios é 11 cm, determine os raios.

GABARITO:

- 1.  $35^\circ$
- 2.  $35^\circ$
- 3.  $10^\circ$

- 4.  $70^\circ$
- 5.  $50^\circ$
- 6. 6
- 7. 9
- 8.  $65^\circ$

- 9. 24
- 10. 4 cm
- 11. 24 cm e 42 cm
- 12. 8 cm e 3 cm