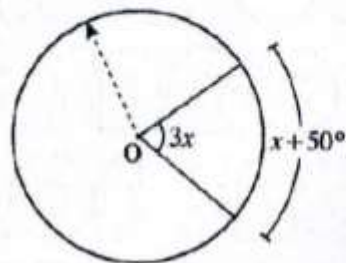


1.

Si O es centro, halla el valor de x .

A) 25°

B) 30°

C) 15°

D) 40°

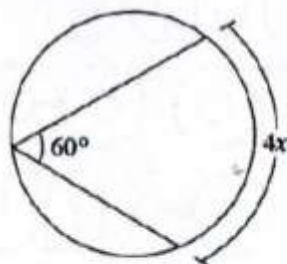
E) 20°

$$3x = x + 50^\circ$$

$$2x = 50^\circ$$

$$x = 25^\circ$$

2.

Halla el valor de x .

$$60^\circ = \frac{4x}{2}$$

$$120^\circ = 4x$$

$$x = \frac{120^\circ}{4}$$

$$x = 30^\circ$$

A) 20°

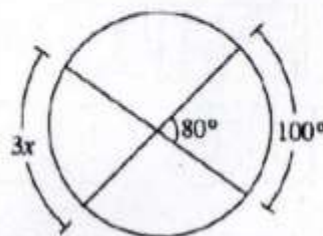
B) 30°

C) 35°

D) 40°

E) 25°

3.

Halla el valor de x .

A) 60°

B) 40°

C) 30°

D) 20°

E) 36°

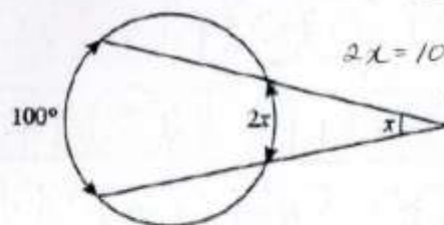
$$80^\circ = \frac{3x + 100^\circ}{2}$$

$$160^\circ = 3x + 100^\circ$$

$$3x = 60^\circ$$

$$x = 20^\circ$$

4.

Halla el valor de x .

$$x = \frac{100^\circ - 2x}{2}$$

$$2x = 100^\circ - 2x$$

$$4x = 100^\circ$$

$$x = 25^\circ$$

A) 20°

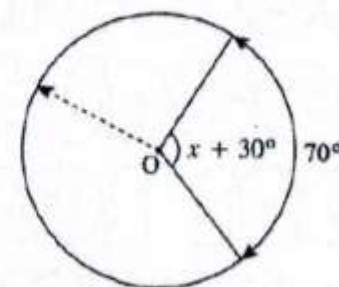
B) 25°

C) 30°

D) 40°

E) 15°

5.

Si O es centro, halla el valor de x .

A) 30°

B) 40°

C) 20°

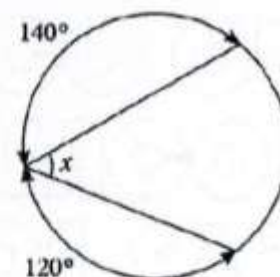
D) 25°

E) 36°

$$x + 30^\circ = 70^\circ$$

$$x = 40^\circ$$

6.

Halla el valor de x .

$$x = \frac{\theta}{2}$$

$$x = \frac{100^\circ}{2}$$

$$x = 50^\circ$$

A) 55°

B) 40°

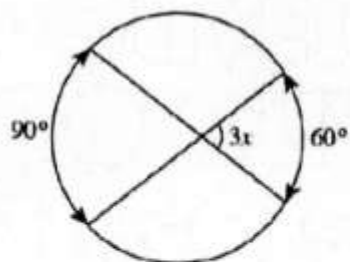
C) 70°

D) 60°

E) 50°

$$\theta = 360^\circ - 260^\circ$$

$$\therefore \theta = 100^\circ$$

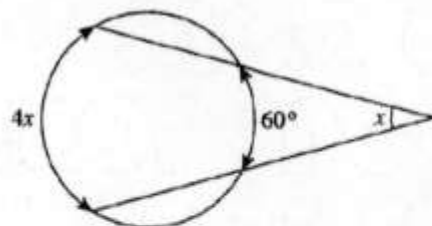
Halla el valor de x .

- A) 20° B) 35° C) 30°
 D) 25° E) 40°

$$3x = \frac{90^\circ + 60^\circ}{2}$$

$$3x = \frac{150^\circ}{2}$$

$$6x = 150^\circ \quad |x = 25^\circ|$$

Hallar el valor de x .

- A) 40° B) 24° C) 36°
 D) 20° E) 30°

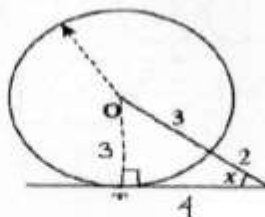
$$x = \frac{4x - 60^\circ}{2}$$

$$2x = 4x - 60^\circ$$

$$2x = 60^\circ \quad |x = 30^\circ|$$

Si O es centro y T es punto de tangencia, halla el valor de x .

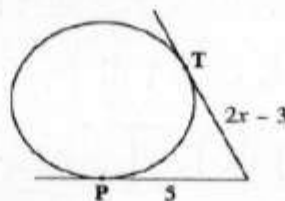
- A) 45°
 B) 60°
 C) 30°
 D) 53°
 E) 37°



10. :

Si P y T son puntos de tangencia, halla el valor de x .

- A) 2
 B) 3
 C) 4
 D) 5
 E) 6



$$2x - 3 = 5$$

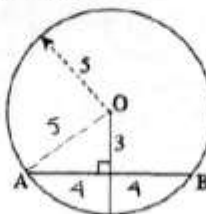
$$2x = 8$$

$$|x = 4|$$

11. :

Si O es centro, halla AB.

- A) 6
 B) 7
 C) 10
 D) 12
 E) 8



12. :

Si O es centro y T es punto de tangencia, halla el valor de x .

- A) 6 B) 8 C) 10
 D) 12 E) $8\sqrt{2}$

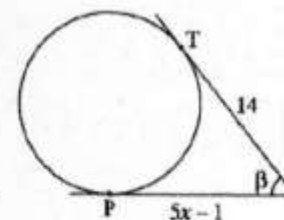
$$x = \sqrt{13^2 - 5^2}$$

$$x = \sqrt{169 - 25}$$

$$x = \sqrt{144}$$

$$|x = 12|$$

13. :

Si P y T son puntos de tangencia, halla el valor de x .

- A) 3 B) 2 C) 5
 D) 4 E) 6

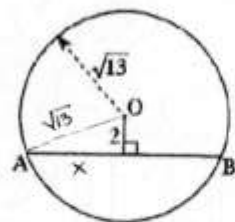
$$5x - 1 = 14$$

$$5x = 15$$

$$|x = 3|$$

14. :

Si O es centro, halla AB.

A) 6 B) 5 C) $6\sqrt{2}$

D) 8 E) 10

$$x = \sqrt{(\sqrt{13})^2 - (2)^2}$$

$$AB = 2(x)$$

$$x = \sqrt{13 - 4}$$

$$AB = 2(3)$$

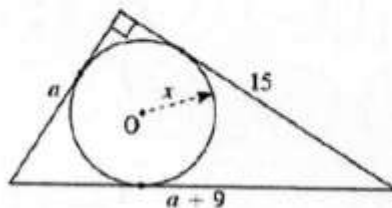
$$x = \sqrt{9}$$

$$\boxed{AB = 6}$$

$$x = 3$$

$$15.:$$

Halla el valor de x.



A) 4 B) 2 C) 1

D) 3 E) 6

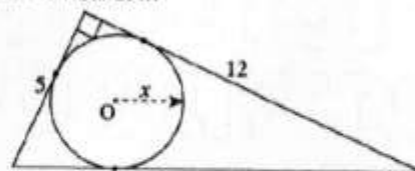
$$a + 15 = a + 9 + 2x$$

$$2x = 6$$

$$\boxed{x = 3}$$

16.:

Halla el valor de x.



A) 1,5 B) 2,5 C) 3

D) 2 E) 1,5

$$H = \sqrt{(12)^2 + (5)^2} \quad \left| \begin{array}{l} 5 + 12 = 13 + 2x \\ 17 - 13 = 2x \end{array} \right.$$

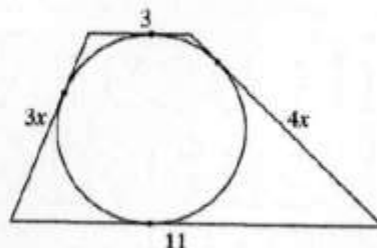
$$H = \sqrt{169} = 13$$

$$2x = 4$$

$$\boxed{x = 2}$$

17.:

Halla el valor de x.



A) 4 B) 3 C) 2,5

D) 2 E) 1,5

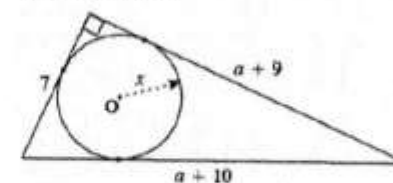
$$3x + 4x = 3 + 11$$

$$7x = 14$$

$$\boxed{x = 2}$$

18.:

Halla el valor de x.



A) 3 B) 2 C) 1

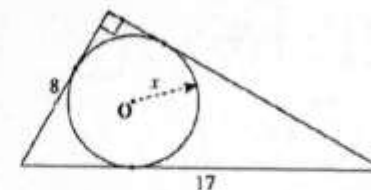
D) 4 E) 1,5

$$7 + a + 9 = a + 10 + 2x$$

$$16 = 10 + 2x$$

$$19. : 2x = 6 \quad \boxed{x = 3}$$

Halla el valor de x.



A) 2 B) 3 C) 1

D) 4 E) 2,5

$$C = \sqrt{(17)^2 - (8)^2}$$

$$8 + 15 = 17 + 2x$$

$$C = \sqrt{289 - 64}$$

$$23 = 17 + 2x$$

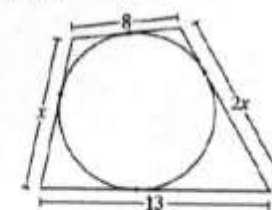
$$C = \sqrt{225} \quad C = 15$$

$$2x = 6$$

20.:

$$\boxed{x = 3}$$

Halla el valor de x.



A) 6 B) 5 C) 8

D) 9 E) 7

$$x + 2x = 1$$

$$3x = 21$$

$$\boxed{x = 7}$$