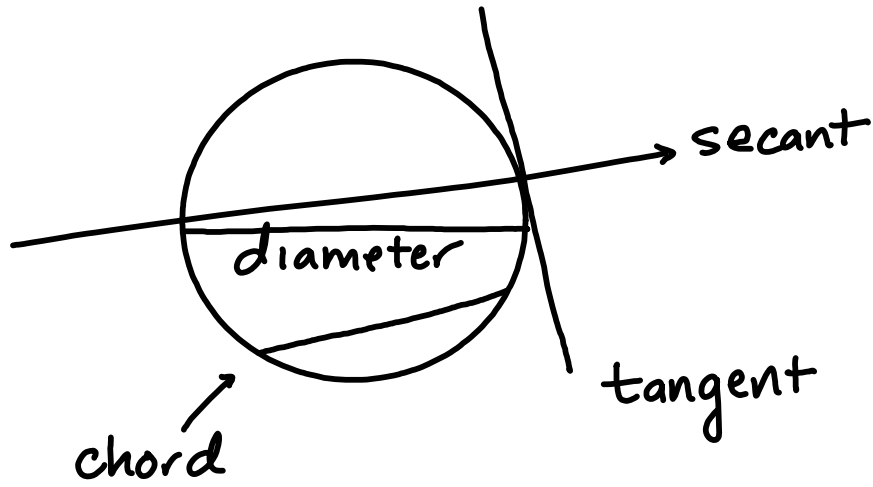


1.



2. 90°

3. radius

4. inscribed

5. $x = \sqrt{95}$

$$a^2 + b^2 = c^2$$

$$7^2 + x^2 = 12^2$$

$$49 + x^2 = 144$$

$$x^2 = 95$$

$$x = \sqrt{95}$$

6. $x=6$

$$\begin{aligned}3x - 8 &= 10 \\3x &= 18 \\x &= 6\end{aligned}$$

7. 78°

8. major arc is more than 180° , minor arc is less than 180° .

9. congruent

10. $AV = \sqrt{34}$

$$\begin{aligned}3^2 + 5^2 &= AV^2 \\9 + 25 &= AV^2 \\34 &= AV^2 \\\sqrt{34} &= AV\end{aligned}$$

11. $y = 11.25$

$$\begin{aligned}4y &= \frac{1}{2}(90) \\4y &= 45 \\y &= 11.25\end{aligned}$$

12. $x=5$

$$\begin{aligned}\frac{1}{2}(9x-1) &= 3x+7 \\ 9x-1 &= 2(3x+7) \\ 9x-1 &= 6x+14 \\ 3x &= 15 \\ x &= 5\end{aligned}$$

13. 60°

14. $x=21.6$

$$\begin{aligned}60 &= \frac{1}{2}(3x+5+2x+7) \\ 120 &= 5x+12 \\ 108 &= 5x \\ x &= 21.6\end{aligned}$$

15. $x=14$

$$\begin{aligned}3x &= \frac{1}{2}(112-28) \\ 3x &= \frac{1}{2}(84) \\ 3x &= 42 \\ x &= 14\end{aligned}$$

$$16. \quad x = 6.6$$

$$3x = 5(4)$$

$$3x = 20$$

$$x = 6.6$$

$$17. \quad x = 11$$

$$4(4 + x) = 5(5 + 7)$$

$$16 + 4x = 60$$

$$4x = 44$$

$$x = 11$$

$$18. \quad x = 11.6$$

$$6x = 5(9 + 5)$$

$$6x = 70$$

$$x = 11.6$$

$$19. \quad x = 3.26$$

$$7^2 = 15x$$

$$49 = 15x$$

$$x = 3.26$$

$$20. \quad x = \sqrt{5}$$

$$2(8 + 2) = x(3x + x)$$

$$20 = x(4x)$$

$$20 = 4x^2$$

$$x^2 = 5$$

$$x = \sqrt{5}$$