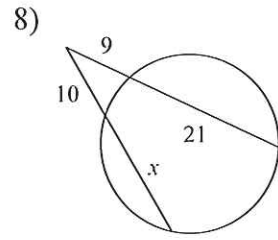
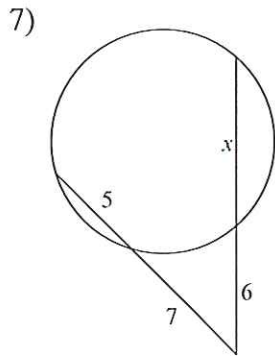
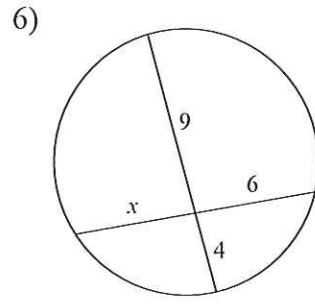
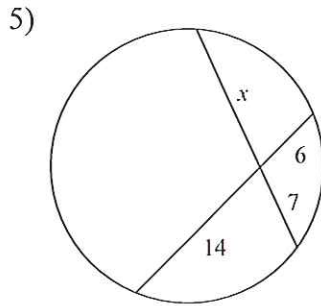
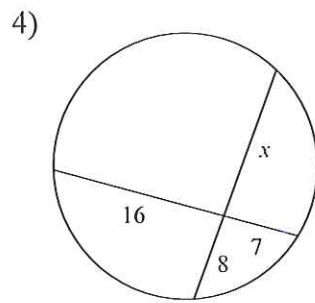
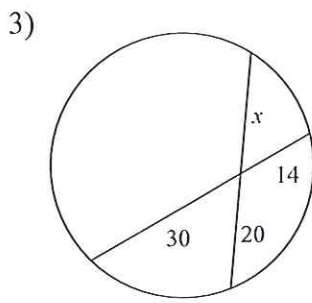
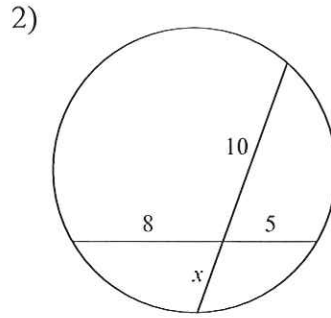
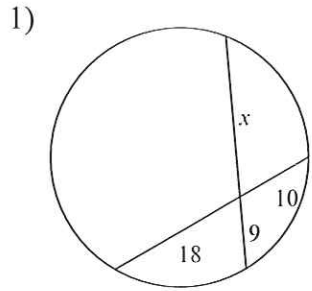
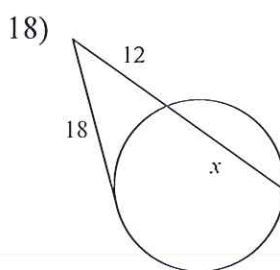
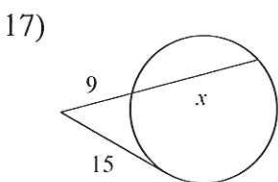
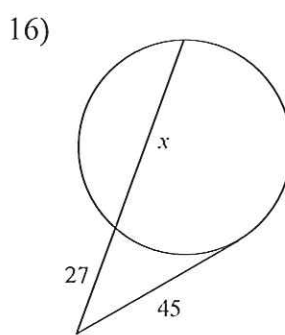
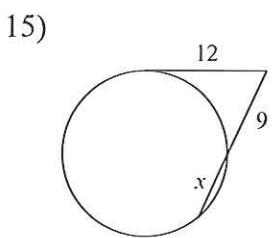
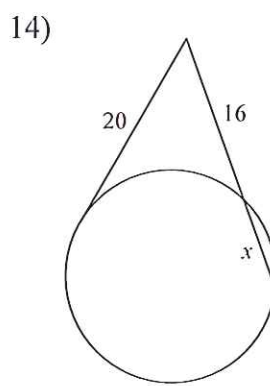
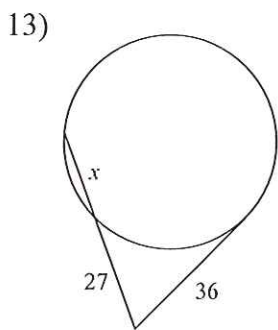
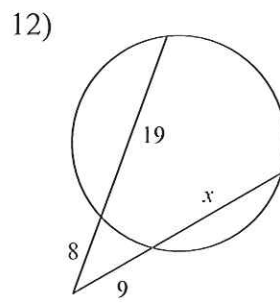
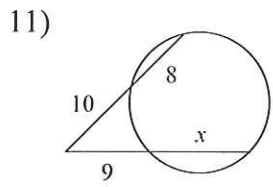
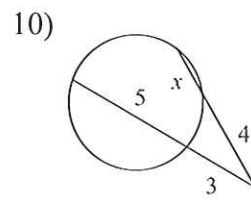
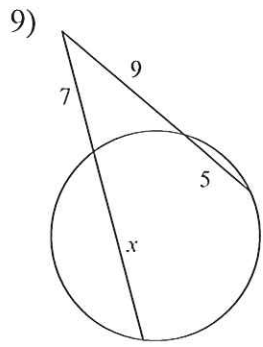


Segments in a Circle Practice

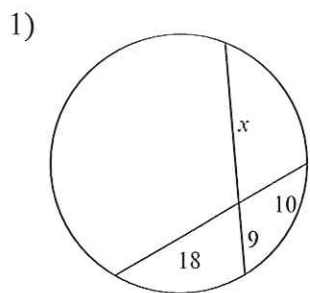
Solve for x . Assume that lines which appear tangent are tangent.





Segments in a Circle Practice

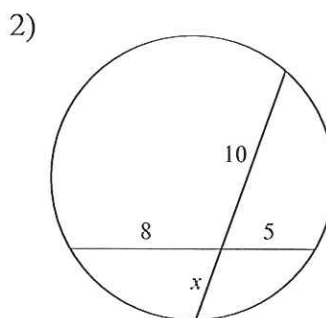
Solve for x . Assume that lines which appear tangent are tangent.



$$18 \cdot 10 = 9 \cdot x$$

$$180 = 9x$$

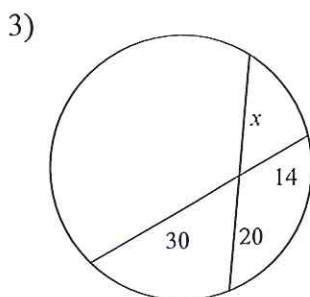
$$\boxed{20 = x}$$



$$10 \cdot x = 8 \cdot 5$$

$$10x = 40$$

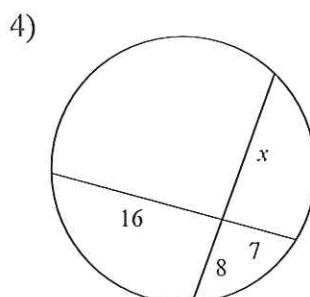
$$\boxed{x = 4}$$



$$x \cdot 20 = 30 \cdot 14$$

$$20x = 420$$

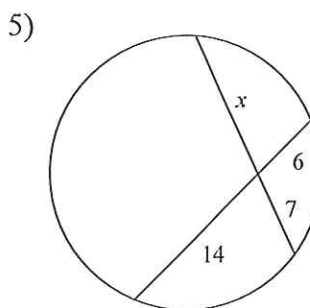
$$\boxed{x = 21}$$



$$x \cdot 8 = 16 \cdot 7$$

$$8x = 112$$

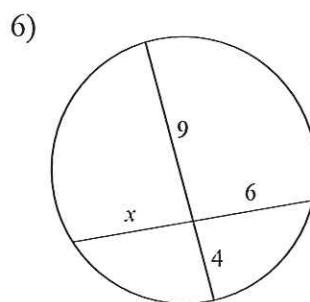
$$\boxed{x = 14}$$



$$x \cdot 7 = 6 \cdot 14$$

$$7x = 84$$

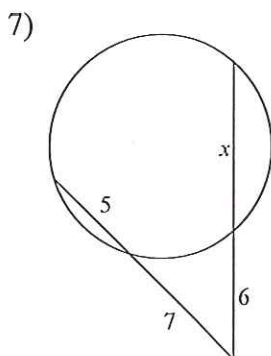
$$\boxed{x = 12}$$



$$9 \cdot 4 = 6 \cdot x$$

$$36 = 6x$$

$$\boxed{6 = x}$$



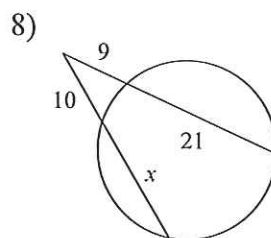
$$(5+7) \cdot 7 = (x+6) \cdot 6$$

$$12 \cdot 7 = 6x + 36$$

$$84 = 6x + 36$$

$$48 = 6x$$

$$\boxed{8 = x}$$



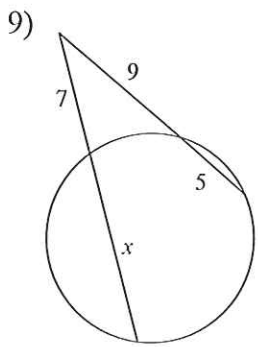
$$(10+x) \cdot 10 = (9+21) \cdot 9$$

$$100 + 10x = 30 \cdot 9$$

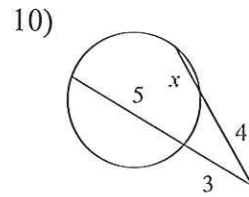
$$100 + 10x = 270$$

$$10x = 170$$

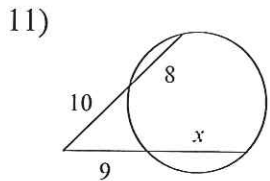
$$\boxed{x = 17}$$



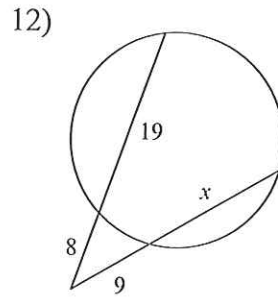
$$\begin{aligned}(x+7) \cdot 7 &= (9+5) \cdot 9 \\ 7x+49 &= 14 \cdot 9 \\ 7x+49 &= 126 \\ 7x &= 77 \\ \mathbf{x=11}\end{aligned}$$



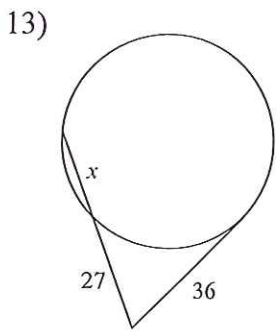
$$\begin{aligned}(5+3) \cdot 3 &= (x+4) \cdot 4 \\ 8 \cdot 3 &= 4x+16 \\ 24 &= 4x+16 \\ 8 &= 4x \\ \mathbf{2=x}\end{aligned}$$



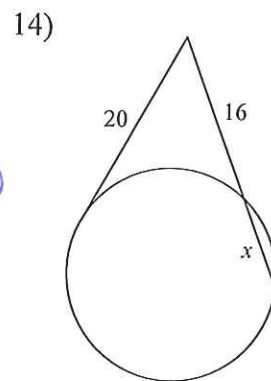
$$\begin{aligned}(10+8) \cdot 10 &= (9+x) \cdot 9 \\ 18 \cdot 10 &= 81+9x \\ 180 &= 81+9x \\ 99 &= 9x \\ \mathbf{11=x}\end{aligned}$$



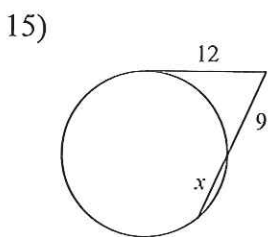
$$\begin{aligned}(8+19) \cdot 8 &= (9+x) \cdot 9 \\ 27 \cdot 8 &= 81+9x \\ 216 &= 81+9x \\ 135 &= 9x \\ \mathbf{15=x}\end{aligned}$$



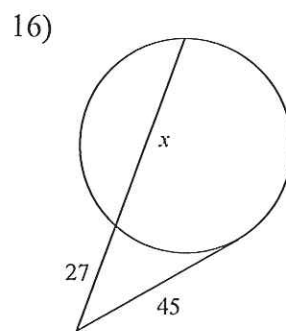
$$\begin{aligned}(x+27) \cdot 27 &= 36^2 \\ 27x+729 &= 1296 \\ 27x &= 567 \\ \mathbf{x=21}\end{aligned}$$



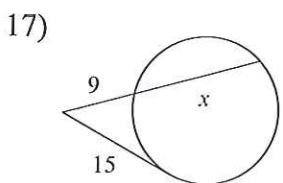
$$\begin{aligned}(16+x) \cdot 16 &= 20^2 \\ 256+16x &= 400 \\ 16x &= 144 \\ \mathbf{x=9}\end{aligned}$$



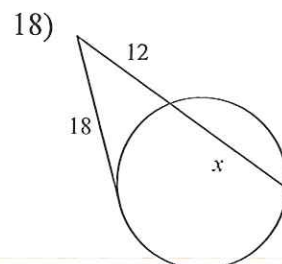
$$\begin{aligned}(x+9) \cdot 9 &= 12^2 \\ 9x+81 &= 144 \\ 9x &= 63 \\ \mathbf{x=7}\end{aligned}$$



$$\begin{aligned}(x+27) \cdot 27 &= 45^2 \\ 27x+729 &= 2025 \\ 27x &= 1296 \\ \mathbf{x=48}\end{aligned}$$



$$\begin{aligned}(9+x) \cdot 9 &= 15^2 \\ 81+9x &= 225 \\ 9x &= 144 \\ \mathbf{x=16}\end{aligned}$$



$$\begin{aligned}(12+x) \cdot 12 &= 18^2 \\ 144+12x &= 324 \\ 12x &= 180 \\ \mathbf{x=15}\end{aligned}$$