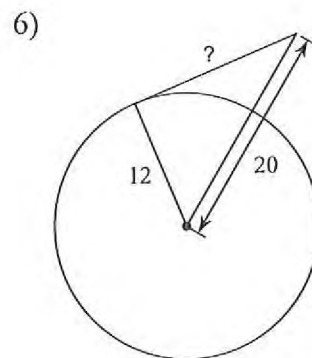
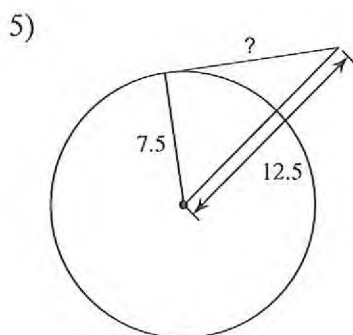
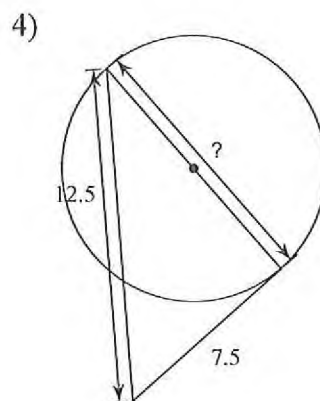
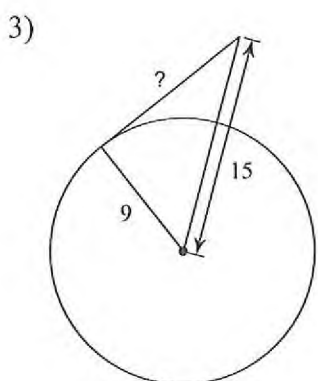
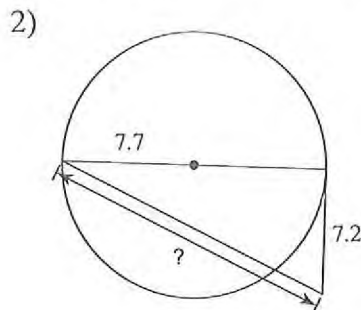
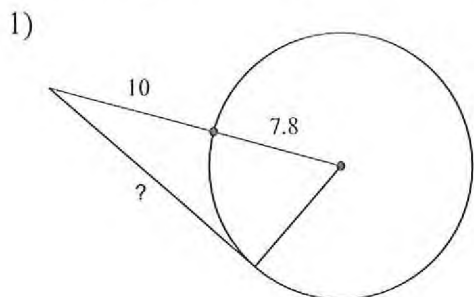
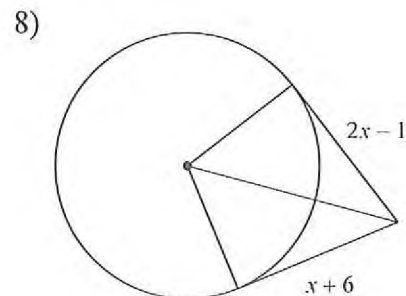
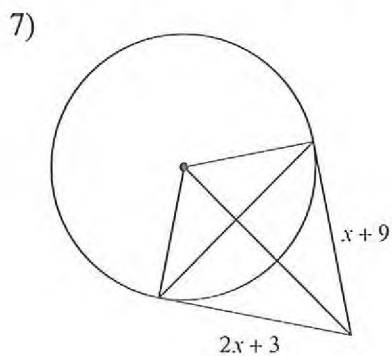


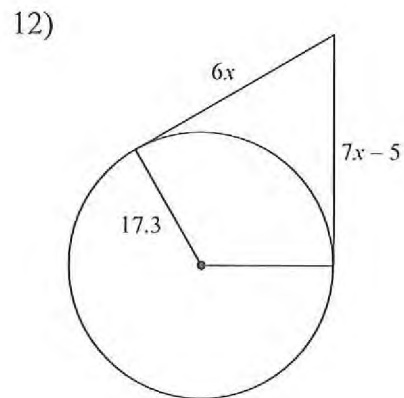
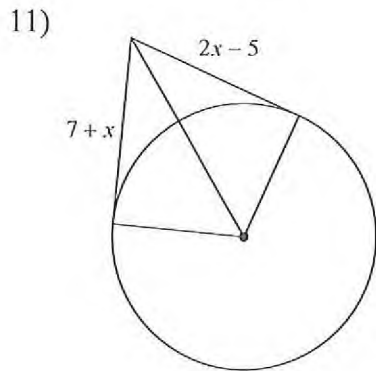
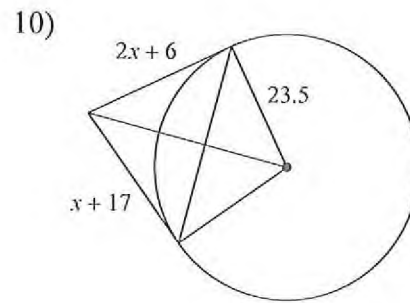
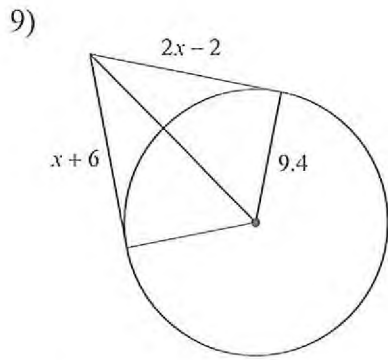
Tangents to a Circle Practice

Find the segment length indicated. Assume that lines which appear to be tangent are tangent.

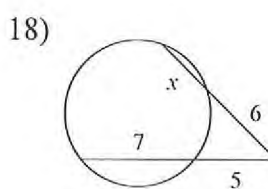
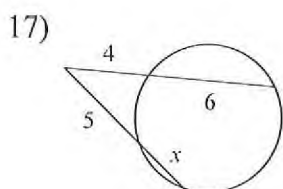
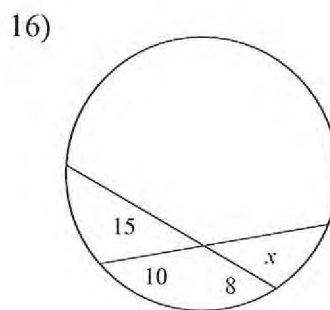
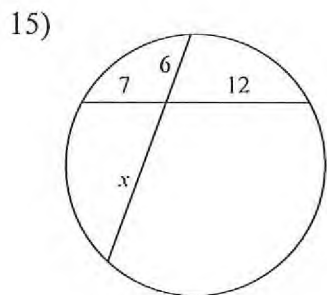
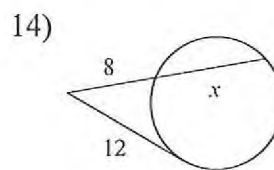
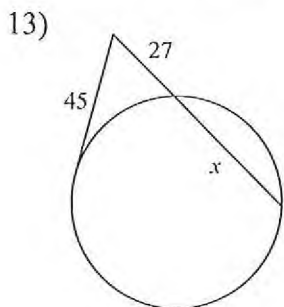


Solve for x . Assume that lines which appear to be tangent are tangent.



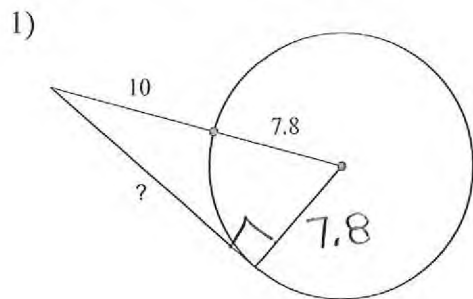


Solve for x . Assume that lines which appear tangent are tangent.



Tangents to a Circle Practice

Find the segment length indicated. Assume that lines which appear to be tangent are tangent.

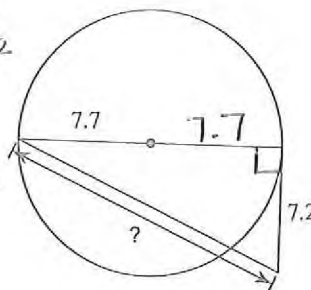


2)
$$x^2 + 7.8^2 = 17.8^2$$

$$x^2 + 60.84 = 316.84$$

$$x^2 = 256$$

$$x = 16$$

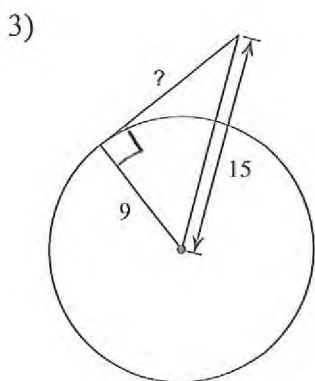


$$7.2^2 + 15.4^2 = x^2$$

$$51.84 + 237.16 = x^2$$

$$289 = x^2$$

$$17 = x$$

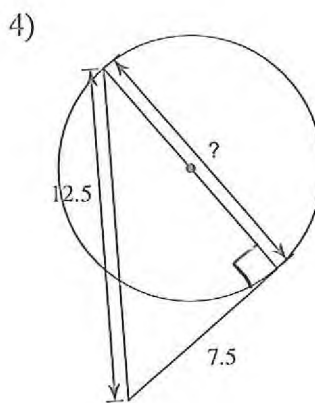


$$9^2 + x^2 = 15^2$$

$$81 + x^2 = 225$$

$$x^2 = 144$$

$$x = 12$$

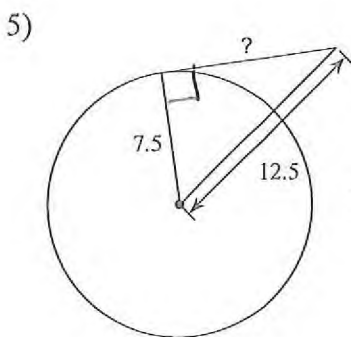


$$7.5^2 + x^2 = 12.5^2$$

$$56.25 + x^2 = 156.25$$

$$x^2 = 100$$

$$x = 10$$

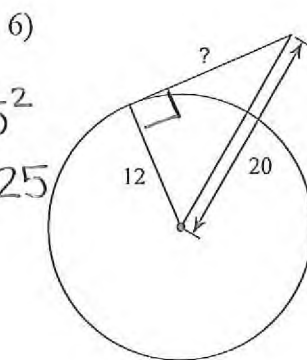


$$x^2 + 7.5^2 = 12.5^2$$

$$x^2 + 56.25 = 156.25$$

$$x^2 = 100$$

$$x = 10$$



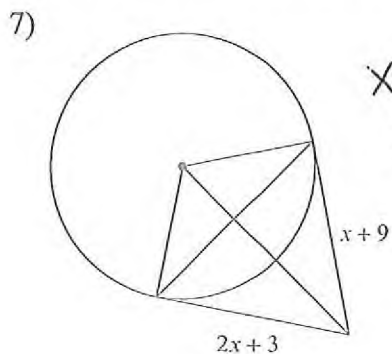
$$12^2 + x^2 = 20^2$$

$$144 + x^2 = 400$$

$$x^2 = 256$$

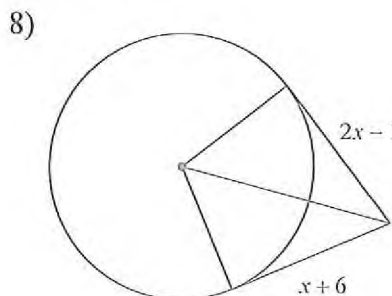
$$x = 16$$

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



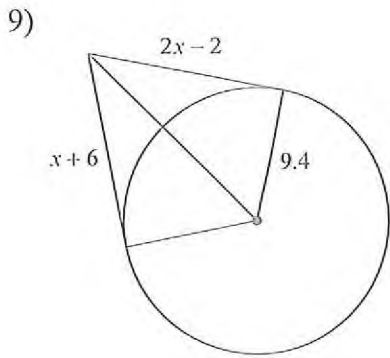
$$x+9 = 2x+3$$

$$6 = x$$



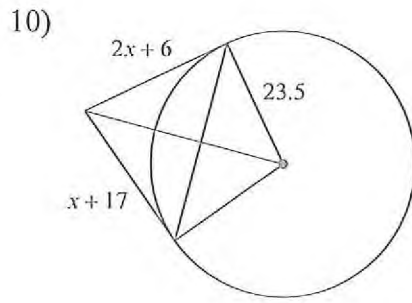
$$2x-1 = x+6$$

$$x = 7$$



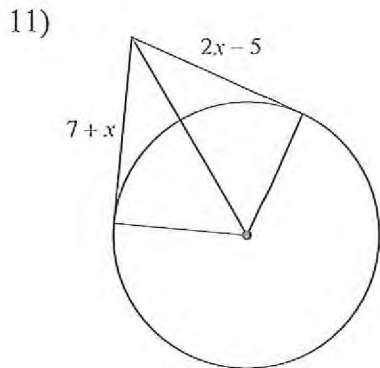
$$2x-2 = x+6$$

$$x = 8$$



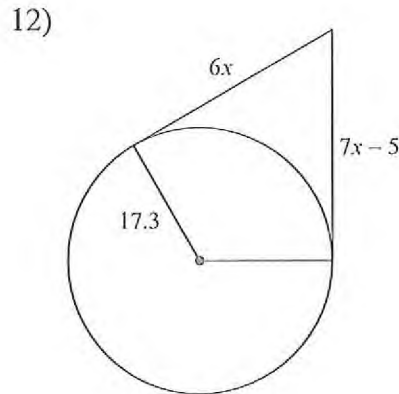
$$2x+6 = x+17$$

$$x = 11$$



$$7+x = 2x-5$$

$$12 = x$$

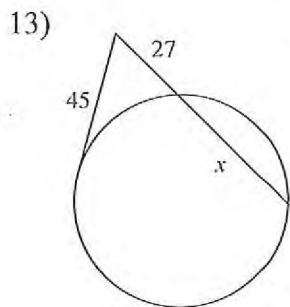


$$6x = 7x-5$$

$$0 = x-5$$

$$5 = x$$

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

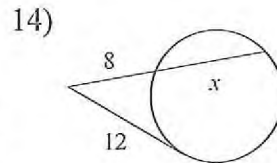


$$45^2 = (x+27) \cdot 27$$

$$2025 = 27x + 729$$

$$1296 = 27x$$

$$48 = x$$

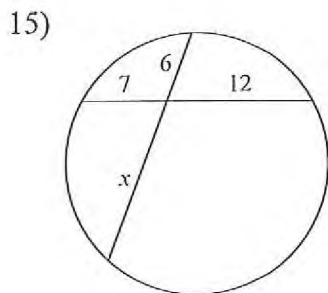


$$12^2 = (x+8) \cdot 8$$

$$144 = 8x + 64$$

$$80 = 8x$$

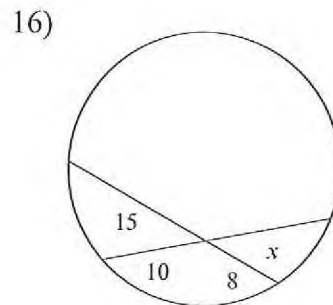
$$10 = x$$



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

$$84 = 6x$$

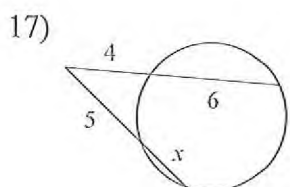
$$14 = x$$



$$15 \cdot 8 = 10 \cdot x$$

$$120 = 10x$$

$$12 = x$$



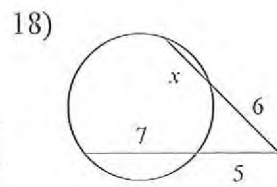
$$(4+6) \cdot 4 = (5+x) \cdot 5$$

$$10 \cdot 4 = 25 + 5x$$

$$40 = 25 + 5x$$

$$15 = 5x$$

$$3 = x$$



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

$$12 \cdot 5 = 6x + 36$$

$$60 = 6x + 36$$

$$24 = 6x$$

$$4 = x$$