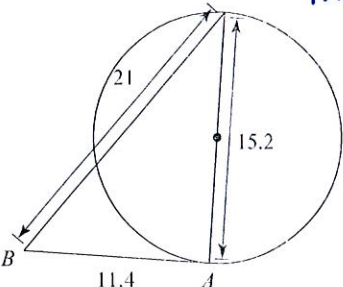
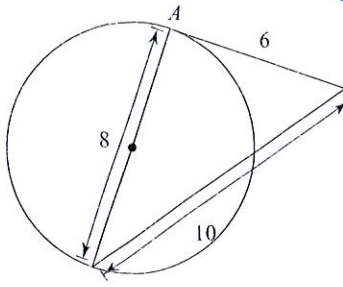


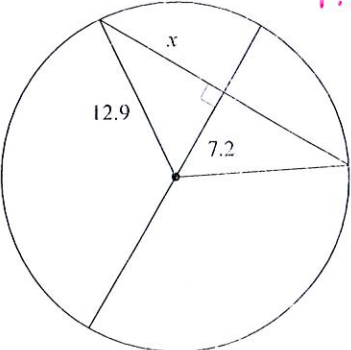
Unit 5 Quiz Review

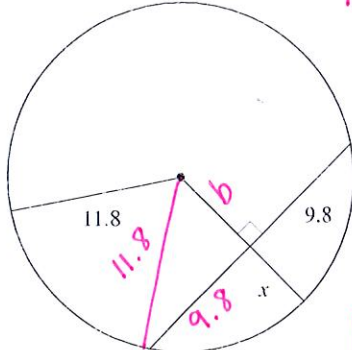
Determine if line AB is tangent to the circle.

1)  $11.4^2 + 15.2^2 = 21^2$
 $361 \neq 441$
NO

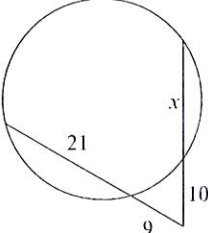
2)  $b^2 + 8^2 = 10^2$
 $100 = 100 \checkmark$
yes

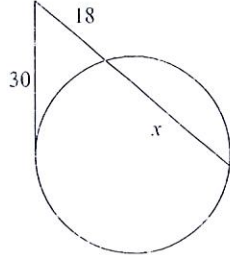
Find the length of the segment indicated. Round your answer to the nearest tenth if necessary.

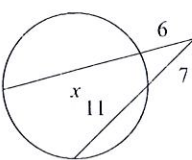
3)  $7.2^2 + x^2 = 12.9^2$
 $x^2 = 114.57$
 $x = 10.7$

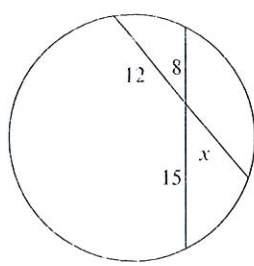
4)  $9.8^2 + b^2 = 11.8^2$
 $b^2 = 43.2$
 $b = 6.6$
 $x = 11.8 - b$
 $x = 11.8 - 6.6$
 $x = 5.2$

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

5)  $10(x+10) = 9(9+21)$
 $10x + 100 = 9(30)$
 $10x + 100 = 270$
 $10x = 170$
 $x = 17$

6)  $30^2 = 18(x+18)$
 $900 = 18x + 324$
 $576 = 18x$
 $x = 32$

7)  $6(x+6) = 7(7+11)$
 $6x + 36 = 7(18)$
 $6x + 36 = 126$
 $6x = 90$
 $x = 15$

8)  $8(15) = 12(x)$
 $120 = 12x$
 $x = 10$

9) $12^2 = 8(x+8)$
 $144 = 8x + 64$
 $80 = 8x$
 $x = 10$

10) $10(x) = 9(20)$
 $10x = 180$
 $x = 18$

11) $7(4x+1+7) = 8(3x+8)$
 $7(4x+8) = 8(3x+8)$
 $28x+56 = 24x+64$
 $4x = 8$
 $x = 2$

12) $9(x+9+9) = 10(x+5+10)$
 $9(x+18) = 10(x+15)$
 $9x+162 = 10x+150$
 $-x = -12$
 $x = 12$

Find the measure of the line segment indicated. Assume that lines which appear tangent are tangent.

13) Find TS $18^2 = 12(x+3+12)$
 $324 = 12(x+15)$
 $324 = 12x + 180$
 $144 = 12x$
 $x = 12$
 $TS = x+3$
 $TS = 12+3$
 $TS = 15$

14) Find CE $4(4+2) = 3(2x-13+3)$
 $4(6) = 3(2x-10)$
 $24 = 6x-30$
 $54 = 6x$
 $x = 9$
 $CE = 2x-13+3$
 $CE = 2(9)-10$
 $CE = 8$

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

15) $5x+4 = 4x+9$
 $x = 5$

16) $8x = 7x+4$
 $x = 4$

Find the perimeter of each polygon. Assume that lines which appear to be tangent are tangent.

17) $P = 6.8 + 6.8 + 10 + 10 + 8.6 + 8.6$
 $P = 50.8$

18) $P = 10.4 + 10.4 + 8.4 + 8.4 + 12 + 12 + 6.7 + 6.7$
 $P = 75$