

Name Key

Date _____

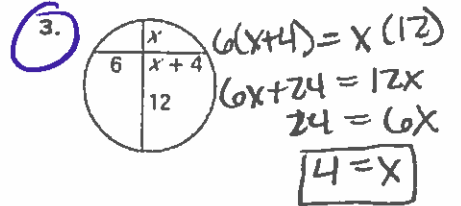
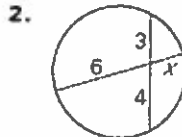
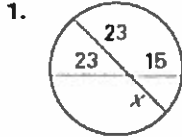
LESSON 10.6

Practice

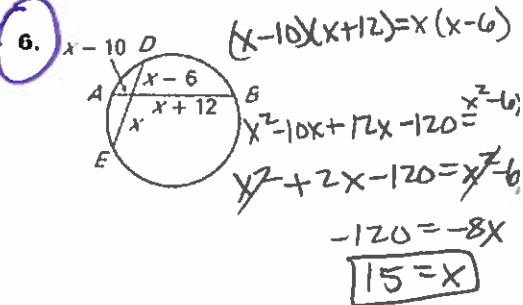
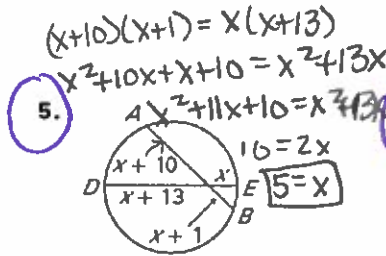
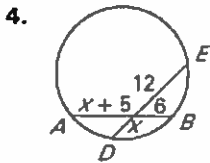
For use with pages 688-695

35, 6, 7, 10, 11, 14, 15, 18, 23, 25, 26

Find the value of x .

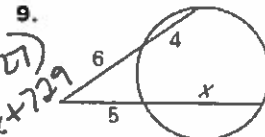
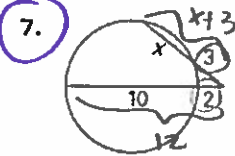


Find AB and DE .



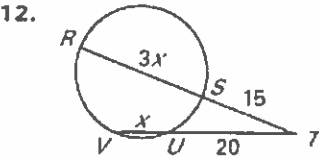
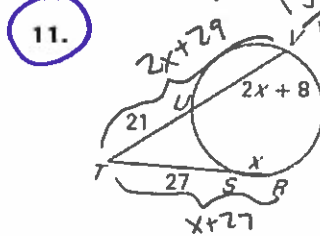
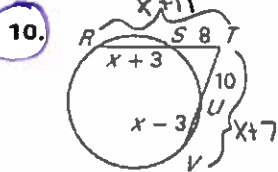
Find the value of x .

$3(x+3) = 2(12)$
 $3x+9 = 24$
 $3x = 15$
 $x = 5$

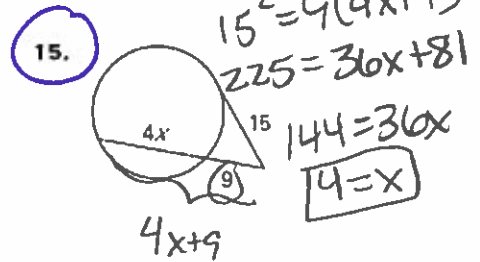
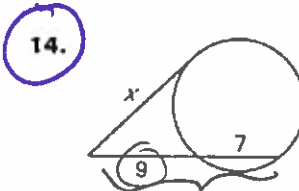
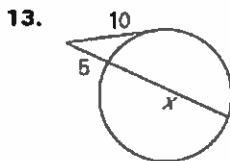


$8(x+1) = 10(x+8)$
 $8x+8 = 10x+80$
 $18 = 2x$
 $9 = x$

Find RT and TU .



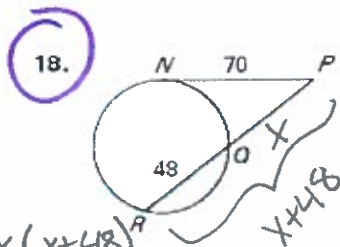
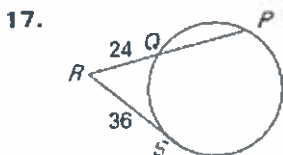
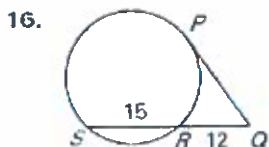
Find the value of x .



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LESSON 10.6 Practice *continued*
For use with pages 668-695

Find PQ .



$$70^2 = X(X+48)$$

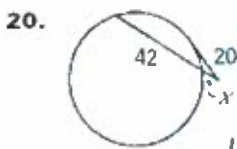
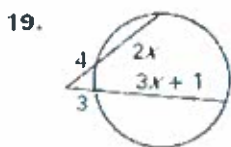
$$4900 = X^2 + 48X$$

$$0 = X^2 + 48X - 4900$$

$$0 = (X+98)(X-50)$$

$$X = -98 \quad \boxed{X = 50}$$

Find the value of x .



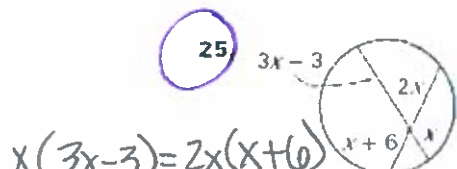
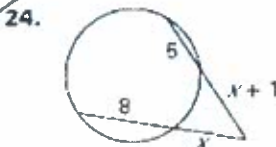
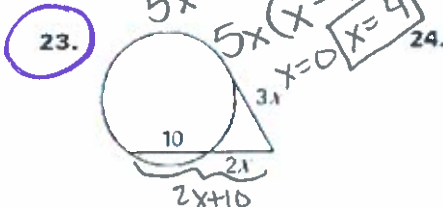
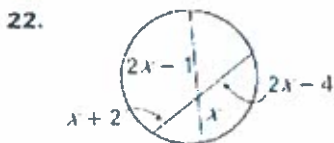
$$(3x)^2 = 2x(2x+10)$$

$$9x^2 = 4x^2 + 20x$$

$$5x^2 - 20x = 0$$

$$5x(x-4) = 0$$

$$x = 0 \quad \boxed{x = 4}$$



$$X(3x-3) = 2x(x+6)$$

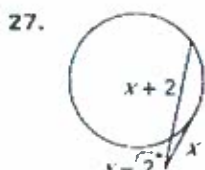
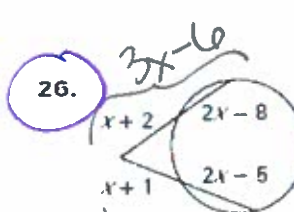
$$3x^2 - 3x = 2x^2 + 12x$$

$$x^2 - 3x = 12x$$

$$x^2 - 15x = 0$$

$$x(x-15) = 0$$

$$x = 0 \quad \boxed{x = 15}$$



$$3x-4$$

$$(x+2)(3x-6) = (x+1)(3x-4)$$

$$3x^2 + 6x - 6x - 12 = 3x^2 - 4x + 3x - 4$$

$$3x^2 - 12 = 3x^2 - x - 4$$

$$-8 = -x$$

$$\boxed{8 = x}$$