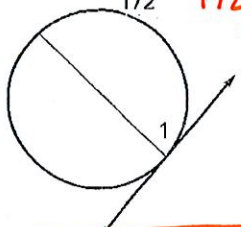
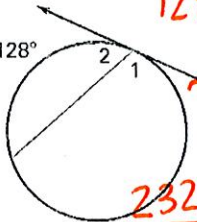


**LESSON 6.5 Practice** Vertex on, inside, + outside the circle.

Find the measure of each numbered angle or arc.

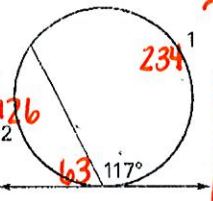
1.   $172/2 = 86$

$m\angle 1 = 86^\circ$

2.   $128/2 = 64$

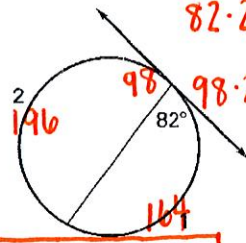
$232/2 = 116$

$m\angle 1 = 116^\circ$   
 $m\angle 2 = 64^\circ$

3.   $117 \cdot 2 = 234$

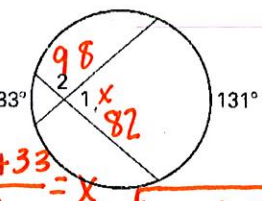
$63 \cdot 2 = 126$

$m\angle 1 = 234^\circ$   
 $m\angle 2 = 126^\circ$

4.   $82 \cdot 2 = 164$

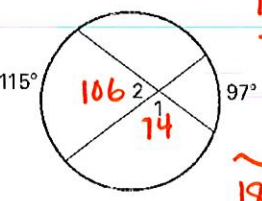
$98 \cdot 2 = 196$

$m\angle 1 = 164^\circ$   
 $m\angle 2 = 196^\circ$

5.   $131 + 33 = 164$

$164/2 = 82$

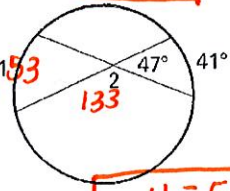
$m\angle 1 = 82^\circ$   
 $m\angle 2 = 98^\circ$

6.   $115 + 97 = 212$

$212/2 = 106$

$180 - 106 = 74$

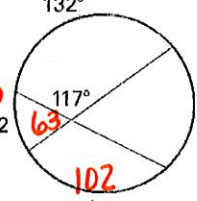
$m\angle 1 = 74^\circ$   
 $m\angle 2 = 106^\circ$

7.   $41 + x = 94$

$x = 53$

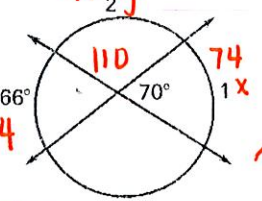
$180 - 47 = 133$

$m\angle 1 = 53^\circ$   
 $m\angle 2 = 133^\circ$

8.   $132 + x = 234$

$x = 102$

$m\angle 1 = 102^\circ$   
 $m\angle 2 = 40^\circ$

9.   $66 + x = 140$

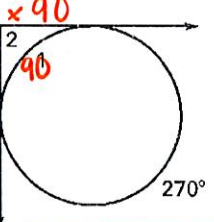
$x = 74$

$126 + y = 110$

$126 + y = 220$

$y = 94$

$m\angle 1 = 74^\circ$   
 $m\angle 2 = 94^\circ$

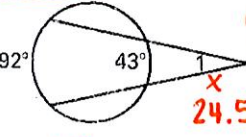
10.   $360 - 270 = 90$

$270 - 90 = 180$

$180/2 = 90$

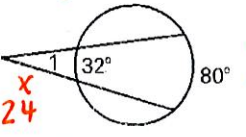
$x = 90$

$m\angle 1 = 90^\circ$   
 $m\angle 2 = 90^\circ$

11.   $92 - 43 = 49$

$49/2 = 24.5$

$m\angle 1 = 24.5^\circ$

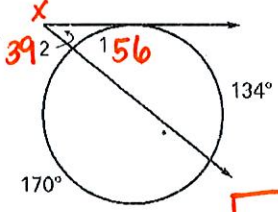
12.   $80 - 32 = 48$

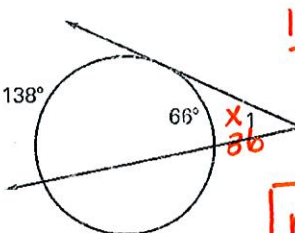
$48/2 = 24$

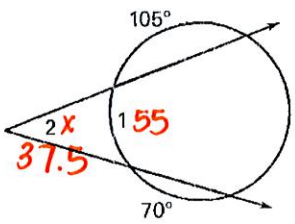
$m\angle 1 = 24^\circ$

**LESSON 6.5 Practice** *continued*

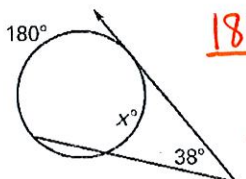
Find the measure of each numbered angle or arc.

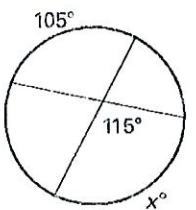
13.   $\frac{134 - 56}{2} = x$   
 $x = 39$   
 $m\angle 1 = 56^\circ$   
 $m\angle 2 = 39^\circ$

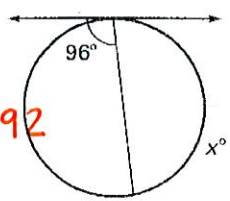
14.   $\frac{138 - 66}{2} = x$   
 $x = 36$   
 $m\angle 1 = 36^\circ$

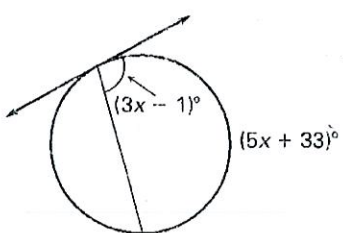
15.   $\frac{130 - 55}{2} = x$   
 $x = 37.5$   
 $m\angle 1 = 55^\circ$   
 $m\angle 2 = 37.5^\circ$

Find the value of  $x$ .

16.   $\frac{180 - x}{2} = 38$   
 $180 - x = 76$   
 $-x = -104$   
 $x = 104$

17.   $\frac{105 + x}{2} = 115$   
 $105 + x = 230$   
 $x = 125$

18.   $360 - 192 = x$   
 $x = 168$

19.   $2(3x - 1) = 5x + 33$   
 $6x - 2 = 5x + 33$   
 $x = 35$