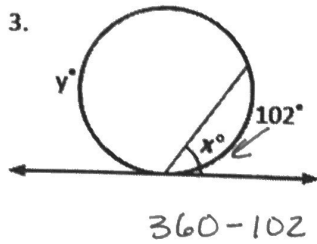


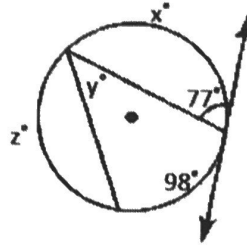
Day 3 - Angle Relationships

1)



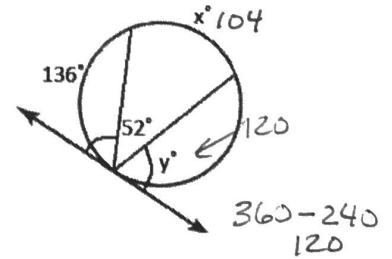
$x = 51^\circ$   $y = 258^\circ$

2)



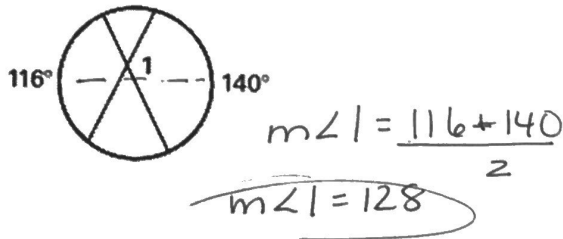
$x = 154^\circ$   $y = 49^\circ$   $z = 108^\circ$

3)

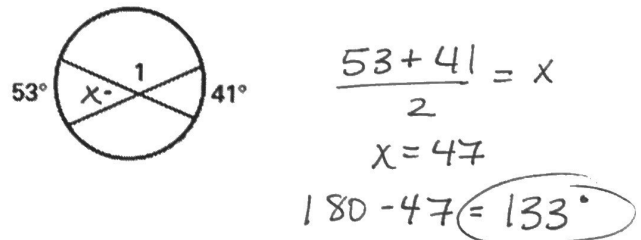


$x = 104^\circ$   $y = 60^\circ$

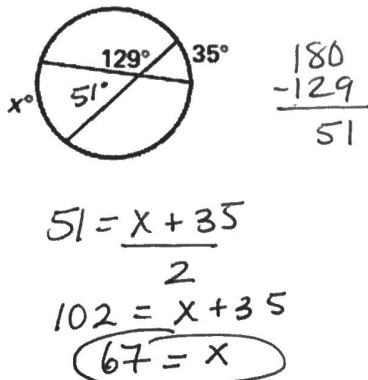
4) Solve for Angle 1.



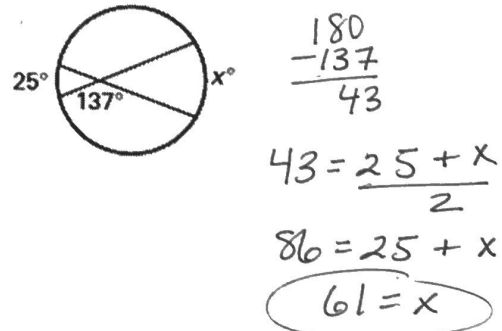
5) Solve for Angle 1.



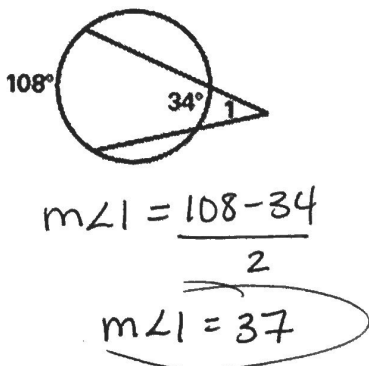
6) Solve for x.



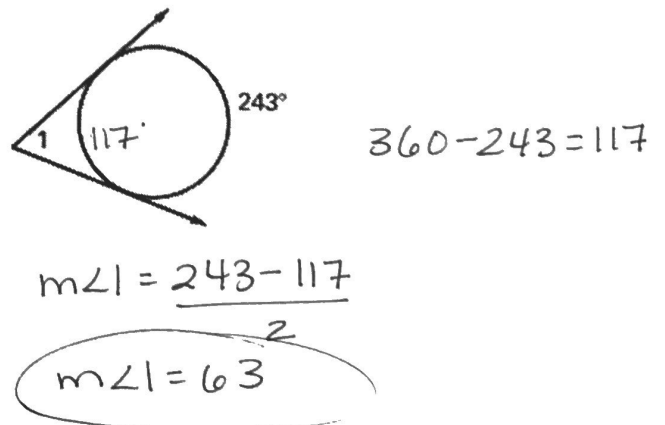
7) Solve for x.



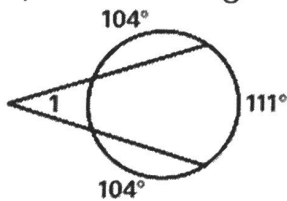
8) Solve for Angle 1.



9) Solve for Angle 1.



10) Solve for Angle 1.

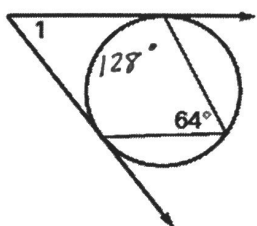


$$360 - (104 + 104 + 111)$$

$$360 - 319 = 41$$

$$m\angle 1 = \frac{111 - 41}{2} = 35^\circ$$

12) Solve for Angle 1.

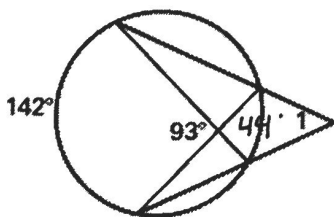


$$360 - 128 = 232$$

$$m\angle 1 = \frac{232 - 128}{2} = \frac{104}{2}$$

$$m\angle 1 = 52$$

14) Solve for Angle 1.



$$\textcircled{1} 93 = \frac{x + 142}{2}$$

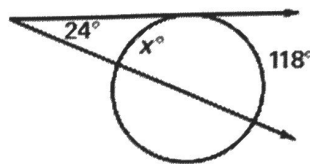
$$186 = x + 142$$

$$44 = x$$

$$\textcircled{2} m\angle 1 = \frac{142 - 44}{2}$$

$$m\angle 1 = 49$$

11) Solve for x.



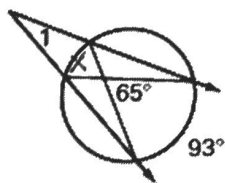
$$24 = \frac{118 - x}{2}$$

$$48 = 118 - x$$

$$-70 = -x$$

$$70 = x$$

13) Solve for Angle 1.



$$\textcircled{1} 65 = \frac{93 + x}{2}$$

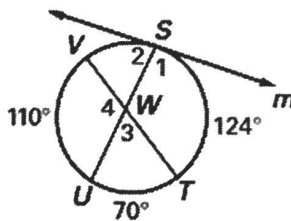
$$130 = 93 + x$$

$$37 = x$$

$$\textcircled{2} m\angle 1 = \frac{93 - 37}{2}$$

$$m\angle 1 = 28$$

15) Find the measure of all numbered angles.



$$m\angle 1 = \frac{194}{2} = 97$$

$$m\angle 2 = 180 - 97 = 83$$

$$m\angle 3 = \frac{70 + 56}{2} = 63$$

$$m\angle 4 = 180 - 63 = 117$$