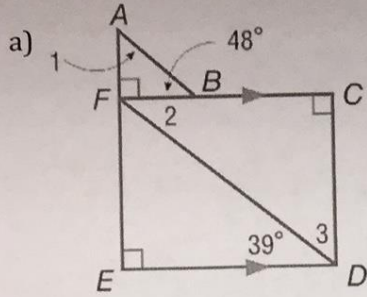


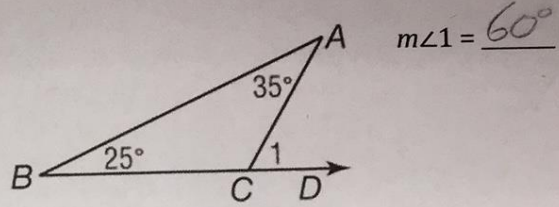
KEY

Level 1: Find measures of each numbered angle.



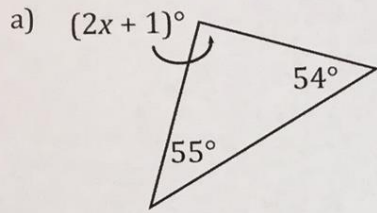
$m\angle 1 = 42^\circ$
 $m\angle 2 = 39^\circ$
 $m\angle 3 = 51^\circ$

b)



$m\angle 1 = 60^\circ$

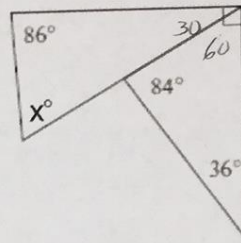
Level 2: Find the value of x in each diagram.



$54 + 55 + 2x + 1 = 180$
 $2x = 70$
 $x = 35$

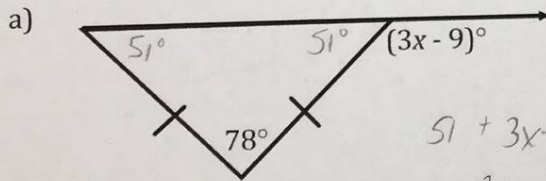
$x = 35$

b)



$x = 64$

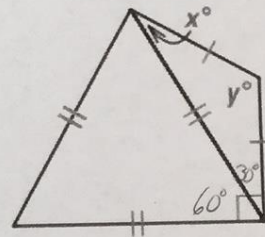
Level 3: Find the value of each variable.



$51 + 3x - 9 = 180$
 $3x + 42 = 180$
 $x = 46$

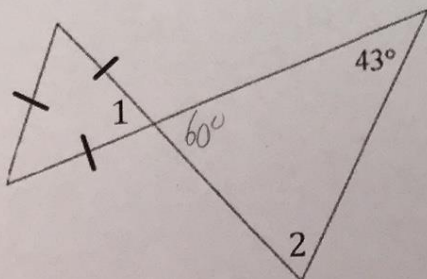
$x = 46^\circ$

b)



$x = 30$, $y = 120$

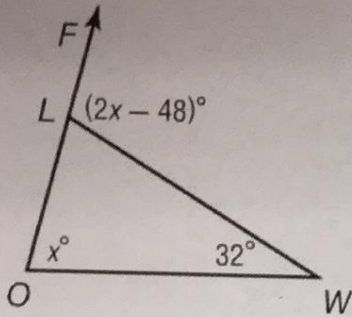
Level 4: Find the value of each numbered angle.



$m\angle 1 = 60^\circ$

$m\angle 2 = 77^\circ$

Level 5: Find the value of x and $m\angle OLW$



$$x + 32 = 2x - 48$$

$$80 = x$$

$$x = \underline{80}$$

$$m\angle OLW = \underline{68^\circ}$$

$$2(80) - 48 = 112$$

Level 6: Find the measure of each numbered angle. (Write the values **on** the diagram)

