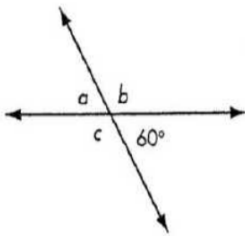
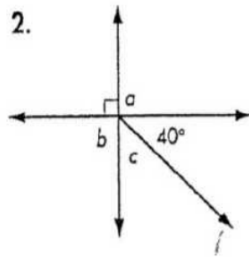


Find the angle measure for each letter.

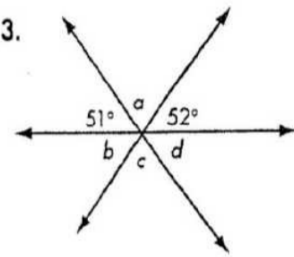
1.



2.

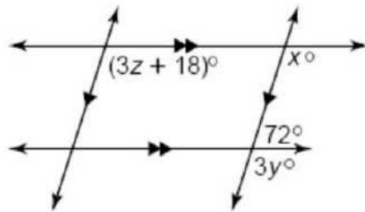


3.

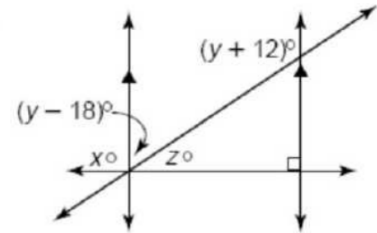


Find the values of  $x$ ,  $y$  and  $z$  in each figure.

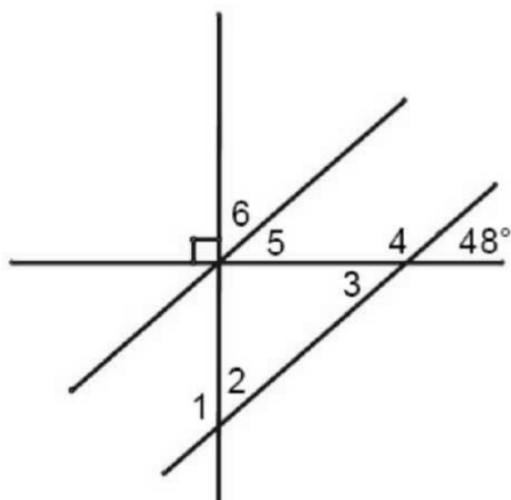
11.



12.



2. Given the information in the sketch that follows, find the measure of all angles.



1.  $m\angle 1 =$  \_\_\_\_\_

2.  $m\angle 2 =$  \_\_\_\_\_

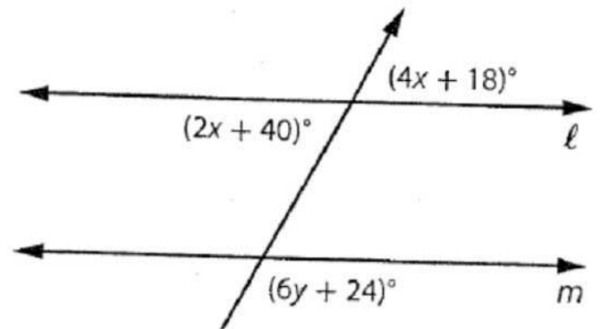
3.  $m\angle 3 =$  \_\_\_\_\_

4.  $m\angle 4 =$  \_\_\_\_\_

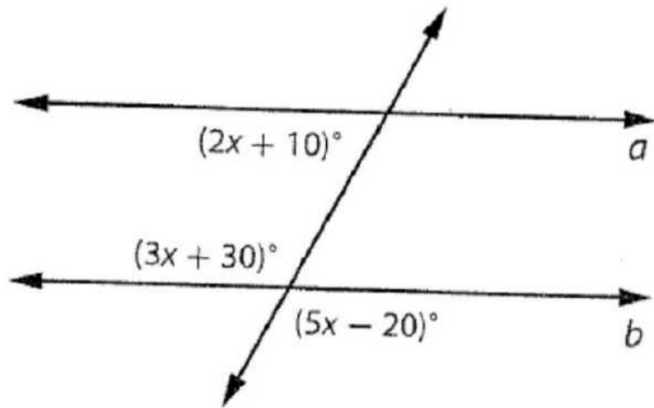
5.  $m\angle 5 =$  \_\_\_\_\_

6.  $m\angle 6 =$  \_\_\_\_\_

6. If lines  $\ell$  and  $m$  are parallel, find the values of  $x$  and  $y$  in the diagram to the right.

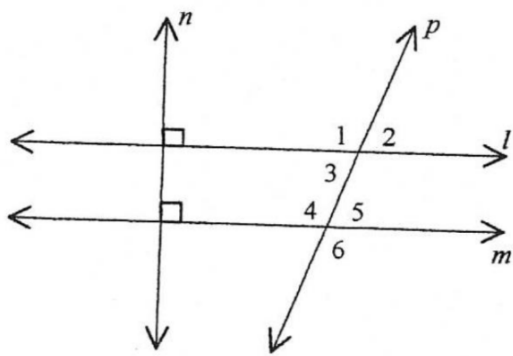


b. Are lines  $a$  and  $b$  parallel? Explain your reasoning.



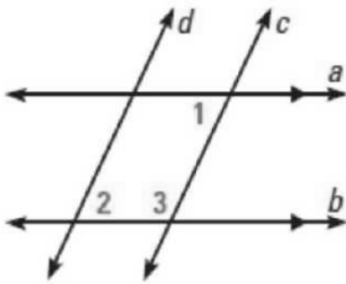
Given:  $l \perp n$ ,  $m \perp n$

Prove:  $\angle 3$  and  $\angle 6$  are supplementary



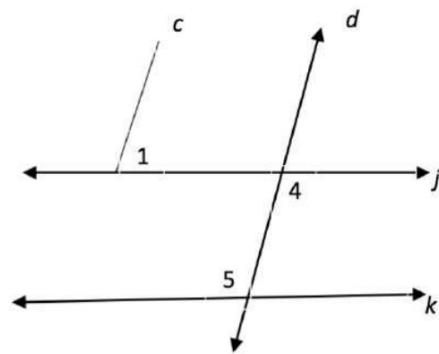
**GIVEN**  $\triangleright a \parallel b, \angle 1 \cong \angle 2$

**PROVE**  $\triangleright c \parallel d$



5. Given:  $\angle 1$  and  $\angle 5$  are Supplementary  
 $\angle 1$  and  $\angle 4$  are Supplementary

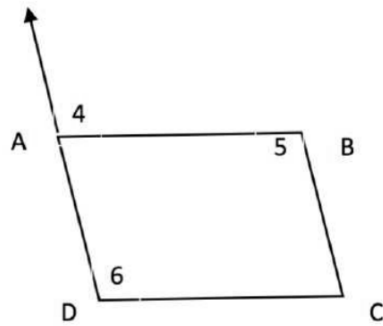
Prove:  $j \parallel k$





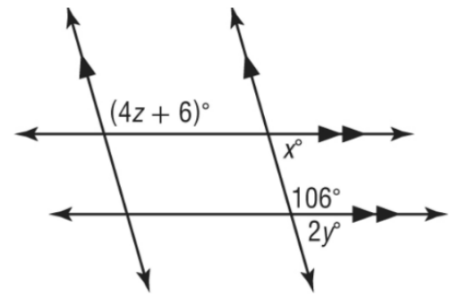
4. Given:  $\angle 5 \cong \angle 6$ ;  $\angle 6 \cong \angle 4$

Prove:  $\overline{AD} \parallel \overline{BC}$

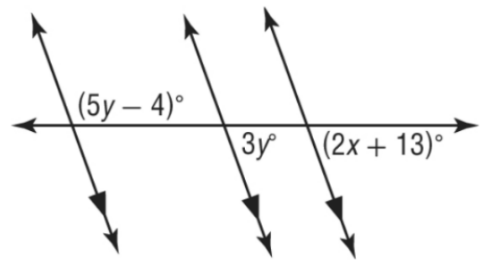


7. \_\_\_\_\_

Find the value of the variable(s) in each figure. Explain your reasoning.



8. Find the value of the variable(s) in each figure.  
Explain your reasoning.



8. Given:  $\overline{AB} \parallel \overline{EC}$ ;  $\overline{BC} \parallel \overline{EF}$

Prove:  $\angle 7 \cong \angle 4$

Statements \_\_\_\_\_ Reasons

