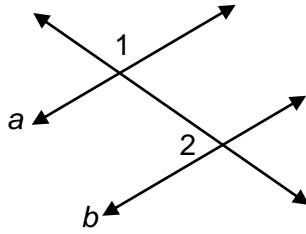
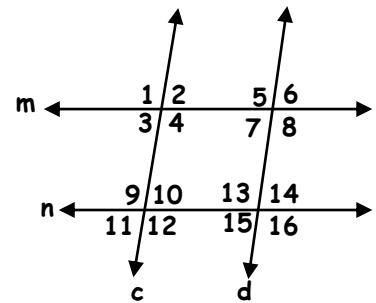


1. $m\angle 1 = x^2$ and $m\angle 2 = 2x + 100$.
If $a \parallel b$, find $m\angle 1$.

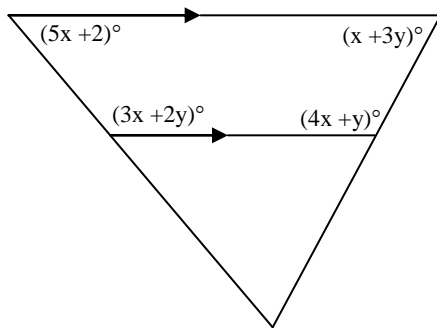


2. GIVEN: $c \parallel d$; $m \parallel n$
PROVE: $\angle 1 \cong \angle 16$



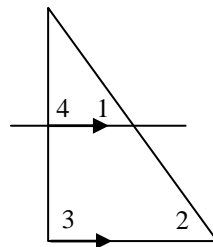
- | | |
|----------|----------|
| 1. _____ | 1. _____ |
| 2. _____ | 2. _____ |
| 3. _____ | 3. _____ |
| 4. _____ | 4. _____ |

3. Find the values of x and y . All expressions are representing angles.

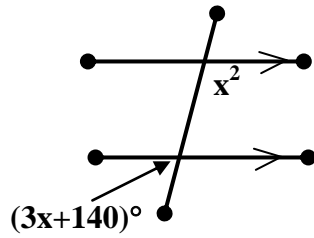


4. If $m\angle 1 = 3x + 2$ and $m\angle 2 = 60 - x$, find $m\angle 2$.

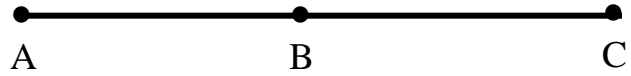
$m\angle 2 =$ _____



5. Find the value(s) of x .
 $x = \underline{\hspace{2cm}}$



6. Given: $AC = AB + AB$
 Prove: $AB = BC$

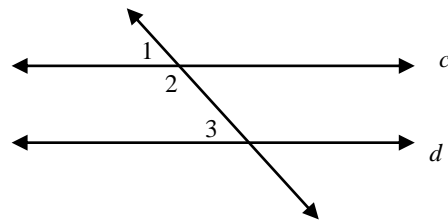


Statements	Reasons

7. Find the value of x and y , if $c \parallel d$ and $m \angle 1 = x + 3y$,
 $m \angle 2 = 5x + 3y$ and $m \angle 3 = 4y + 10$?

$y = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$



8. State the lines which must be parallel and give a reason.
 If no lines must be parallel, write none.

A. $\angle 11 \cong \angle 3$

B. $\angle 12 \cong \angle 7$

C. $\angle 10 \cong \angle 15$

