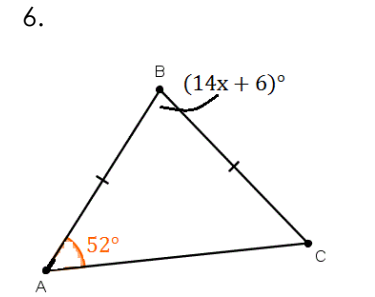
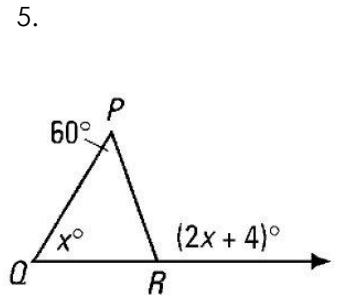
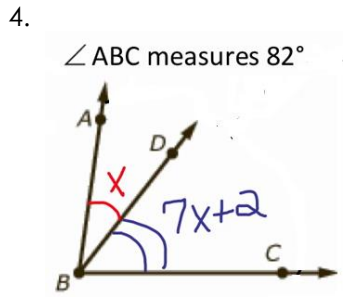
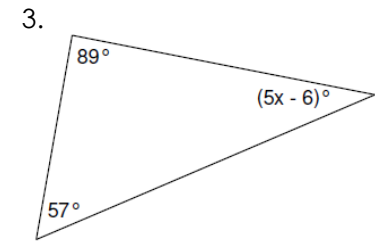
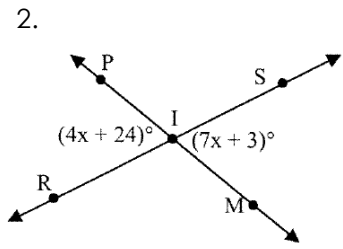
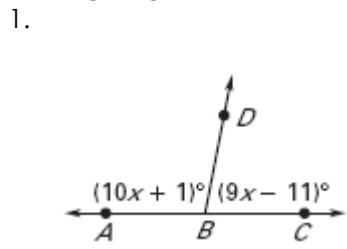


Name: _____ Date: _____

Missing Angles: Solve for x.



7. $\angle 1$ and $\angle 2$ are complementary. Solve for x and the measure of both angles.

$$\begin{aligned} \angle 1 &= 12x + 4 \\ \angle 2 &= 9x + 2 \end{aligned}$$

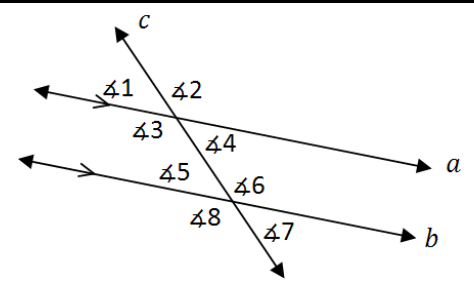
8. The measure of one angle is 38 less than the measure of its supplement. Find the measure of each angle.

9. One of two supplementary angles is 123° less than twice its supplement. Find the measure of both angles.

Parallel Lines:

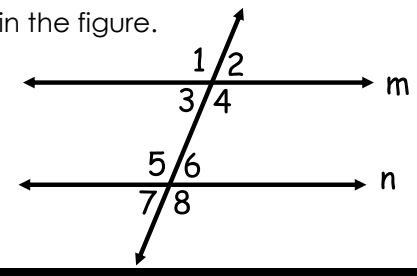
Name the angles listed and the special property.

- 10. $\angle 1$ and $\angle 5$ _____
- 11. $\angle 4$ and $\angle 6$ _____
- 12. $\angle 2$ and $\angle 8$ _____
- 13. $\angle 4$ and $\angle 5$ _____

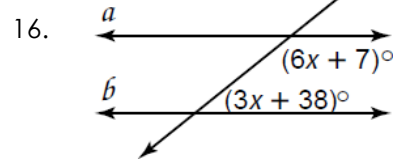
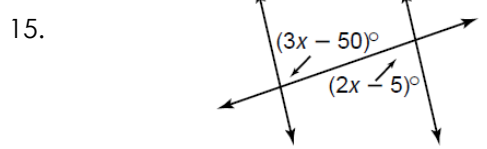


14. Given $m \parallel n$ and $m\angle 8$, find the measures of all the numbered angles in the figure.

- $m\angle 8 = 112^\circ$
- $m\angle 1 =$ _____ $m\angle 2 =$ _____
- $m\angle 3 =$ _____ $m\angle 4 =$ _____
- $m\angle 5 =$ _____ $m\angle 6 =$ _____ $m\angle 7 =$ _____

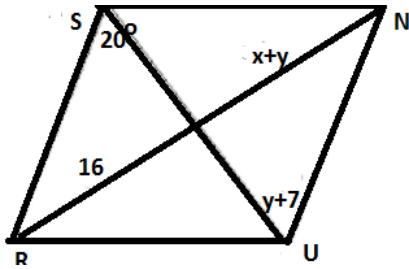


Solve for x.

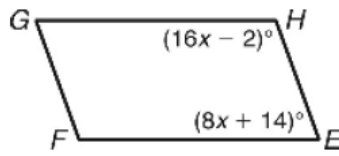


Find the missing variable for the following parallelograms.

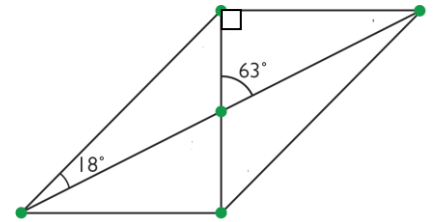
3. Find x and y .



4. Find x .

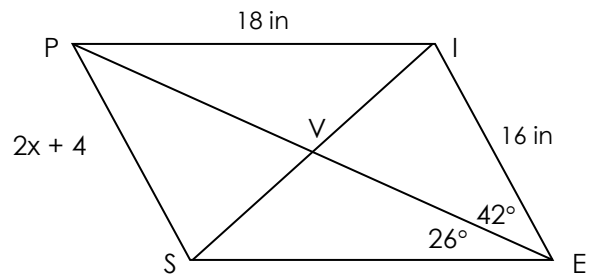


5. Find the missing angles.



Refer to parallelogram PIES below.

6. $x =$ _____
7. $m\angle PIE =$ _____
8. $m\angle IPS =$ _____
9. $m\angle SPV =$ _____
10. If $PV = 20$, then $PE =$ _____



Fill in the properties of the Quadrilateral Flow Chart Below.

