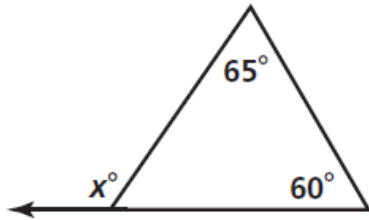
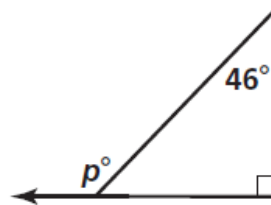


Solve for the variables.

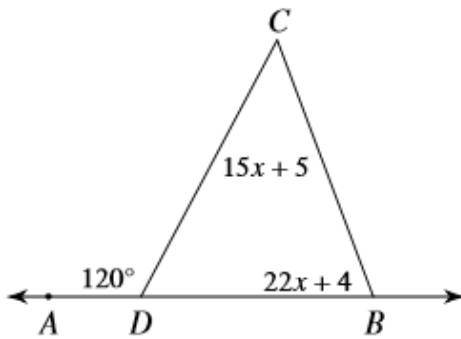
1.



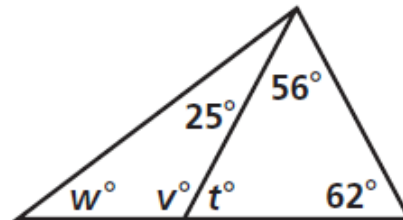
2.



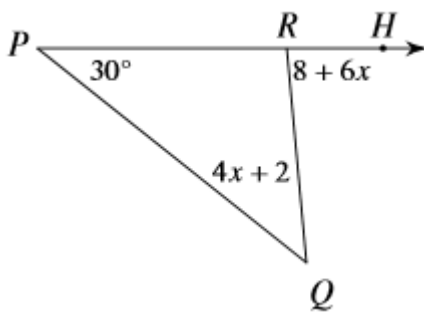
3.



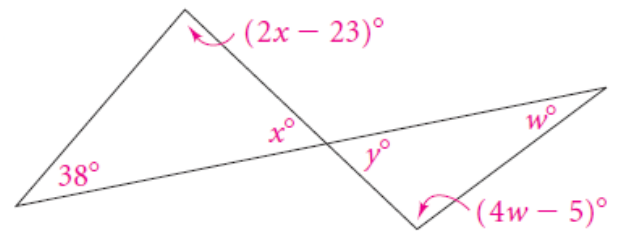
4.



5.

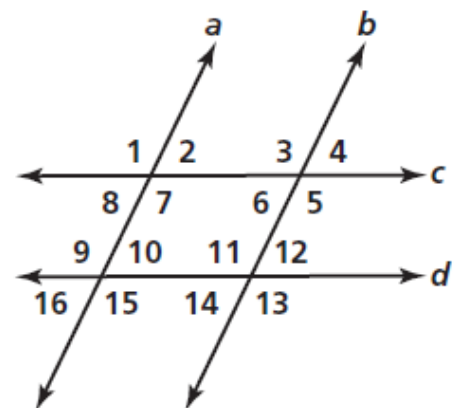


6.



7. Determine if each statement is true or false, based on the diagram.

- $\angle 2$ and $\angle 10$ are corresponding angles.
- $\angle 3$ and $\angle 7$ are alternate interior angles.
- $\angle 1$ and $\angle 8$ are same-side interior angles.
- If $\angle 11$ and $\angle 15$ are congruent, then $a \parallel b$.
- If $\angle 14$ and $\angle 15$ are supplementary, then $c \parallel d$.

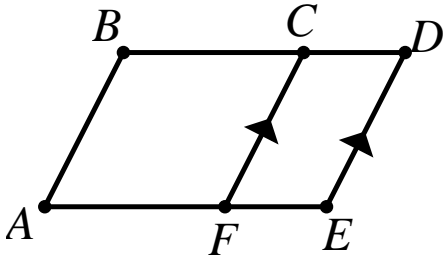


Complete a Two-Column, Flow Chart, or Paragraph Proof.

8. Given: $\overline{FC} \parallel \overline{ED}$

$\angle A \cong \angle D$

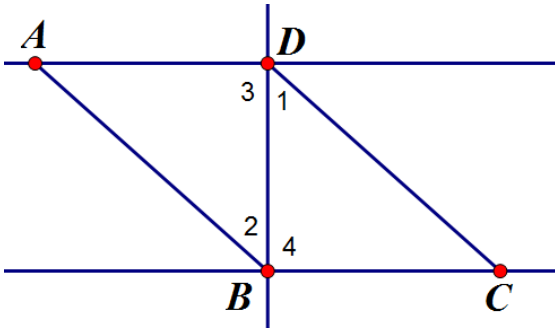
Prove: $\angle A \cong \angle BCF$



9. Given: $\overline{BC} \perp \overline{BD}$

$\overline{AD} \perp \overline{DB}$

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



10. Given: Parallelogram ABCD

Prove: $\angle ABC \cong \angle ADC$

Hint: Make use of angles 1, 2, 3 & 4.

