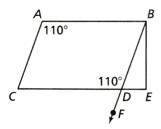
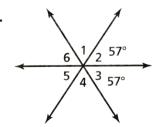
Practice A

In Exercises 1 and 2, identify the pairs of congruent angles in the figures. Explain how you know they are congruent.

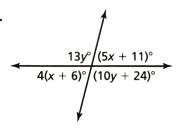


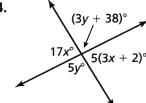
2.



In Exercises 3 and 4, find the values of x and y.

3.



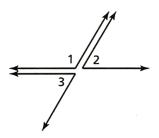


5. Copy and complete the two-column proof.

Given: $\angle 1$ and $\angle 2$ are supplementary.

 $\angle 1$ and $\angle 3$ are supplementary.

Prove: $\angle 2 \cong \angle 3$



STATEMENTS

1. $\angle 1$ and $\angle 2$ are supplementary. $\angle 1$ and $\angle 3$ are supplementary.

2.
$$m \angle 1 + m \angle 2 = 180^{\circ}$$

 $m \angle 1 + m \angle 3 = 180^{\circ}$

4.
$$m \angle 2 = m \angle 3$$

REASONS

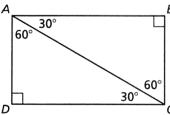
- 1. Given
- 2. $m\angle 1 + m\angle 2 = 180^{\circ}$ $m\angle 1 + m\angle 3 = 180^{\circ}$ 2. Definition of Supplementary Angles 3. $m\angle 1 + m\angle 2 = m \angle 1 + m \angle 3$ 3. Transitive Property (Substitution from #2)
- 4. m22 = m23
 4. Subtraction Projectly of Equality

 5. \(\alpha 2 \geq 23 \)
 5. Definition of congruent angles (Angle Congruence Portulate)

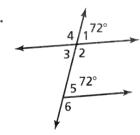
2.6

Practice B

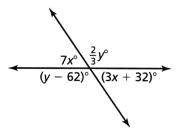
In Exercises 1 and 2, identify the pairs of congruent angles in the figures. Explain how you know they are congruent.

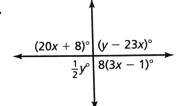


2.



In Exercises 3 and 4, find the values of x and y.





5. Copy and complete the flowchart proof.

Given: $\angle 1$ is a right angle.

 $\angle 5$ is a right angle.

 $\angle 5$ and $\angle 8$ are supplementary.

Prove:
$$\angle 3 \cong \angle 8$$

