

Name: _____

Identify the property that justifies each statement.

1. If $x = y$ and $y = 9$, then $x = 9$.

2. $\angle P \cong \angle P$

3. If $AB = CD$, then $CD = AB$.

4. $5(x + 8) = 5x + 40$

Answer each question.

5. If $RS = TU$ and $TU = VW$, what can you conclude, and by which property?

Solve each equation. Justify each step in the table.

6. Solve $4x - 7 = 29$.

Statements	Reasons
1. $4x - 7 = 29$	1. Given
2.	2.
3.	3.

7. Solve $-3(2m - 5) = 27$.

Statements	Reasons
1. $-3(2m - 5) = 27$	1. Given
2.	2.
3.	3.
4.	4.