

Use each property of equality or congruence to complete each statement

1. Symmetric Property: If $\angle DEF \cong \angle GHI$, then _____
2. Transitive Property: If $AB + CD = EF$ and $EF = GH$, then _____
3. Substitution Property: If $m\angle 1 - m\angle 2 = 90$ and $m\angle 2 = m\angle 4$, then _____
4. Reflexive Property: $m\angle WXY =$ _____
5. Addition Property: If $MN = RS$ and $AB = CD$, then _____
6. Subtraction Property: If $m\angle 1 + 45 = m\angle S + 45$, then _____
7. Multiplication Property: If $\frac{1}{5}CD = 15$, then _____
8. Division Property: If $3m\angle JKL = 99$, then _____
9. Symmetric Property: If $AB = YU$, then _____
10. Symmetric Property: If $\angle H \cong \angle K$, then _____ $\cong \angle H$.
11. Reflexive Property: $\angle PQR \cong$ _____.
12. Distributive Property: $3(x - 1) = 3x -$ _____.
13. Substitution Property: If $LM = 7$ and $EF + LM = NP$, then _____ NP .
14. Transitive Property: If $\angle XYZ \cong \angle AOB$ and $\angle AOB \cong \angle WYT$, then _____.

Name the property of equality or congruence that justifies going from the first statement to the second statement.

$$15. \begin{array}{l} 2x + 1 = 7 \\ 2x = 6 \end{array}$$

$$16. \begin{array}{l} 5x = 20 \\ x = 4 \end{array}$$

$$17. \begin{array}{l} \overline{ST} \cong \overline{QR} \\ \overline{QR} \cong \overline{ST} \end{array}$$

$$18. \begin{array}{l} AB - BC = 12 \\ AB = 12 + BC \end{array}$$