



Write and Solve Equations by Using Congruence

Find the value of x if Q is between P and R , $PQ = 6x + 20$, $QR = 2(x + 6)$, and $\overline{PQ} \cong \overline{QR}$.



Drag the justifications into the correct order.

Definition of congruence

Substitution

Subtract $2x$ from each side.

Subtract 20 from each side.

Divide each side by 4.

Distributive Property