Sec 4-6: Congruence in Right Triangles

HL Theorem

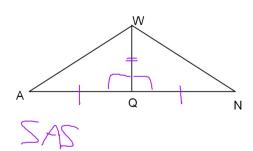
Theorem 4-6

Hypotenuse-Leg (HL) Theorem

If the hypotenuse and a leg of one right triangle are congruent to the hypotenuse and a leg of another right triangle, then the triangles are congruent.

Given:

$$\overline{WQ}$$
 is the \bot bisector of \overline{AN} .



Are the triangles congruent? If yes, give a reason.

Given: $\overline{AW} \cong \overline{NW}$ and \overline{WQ} is \bot to \overline{AN} .

