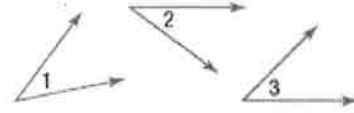


UNIT 1 HOMEWORK: PROVING ANGLE RELATIONSHIPS

Given: $\angle 1$ and $\angle 3$ are complementary

$\angle 2$ and $\angle 3$ are complementary

Prove: $\angle 1 \cong \angle 2$



Statements	Reasons
$\angle 1$ and $\angle 3$ are complementary $\angle 2$ and $\angle 3$ are complementary	Given
$m\angle 1 + m\angle 3 = 90$ $m\angle 2 + m\angle 3 = 90$	Def. of Complementary
$m\angle 1 + m\angle 3 = m\angle 2 + m\angle 3$	Substitution
$m\angle 1 = m\angle 2$	Subtraction
$\angle 1 \cong \angle 2$	Def. of Cong. Angles