

Show Lines

**Definition.** We call an *angle* a point and two rays that start at this point.

**Definition.** Two angles are called congruent if there exists in isometry that maps the base point to the base point and rays to rays.

**Theorem 12.** If two triangles  $\triangle ABC$  and  $\triangle A'B'C'$  are congruent then  $\angle A \cong \angle A'$ ,  $\angle B \cong \angle B'$  and  $\angle C \cong \angle C'$ .

Show Objects

Converse x

**Definition.** We Two lines intersect at the *right* angle if two adjacent angles are congruent.

~~Converse of Theorem 12. If two triangles  $\triangle ABC$  and  $\triangle A'B'C'$  have angles such that  $\angle A \cong \angle A'$ ,  $\angle B \cong \angle B'$  and  $\angle C \cong \angle C'$ , then they are congruent.~~