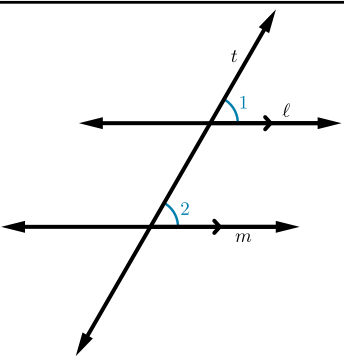
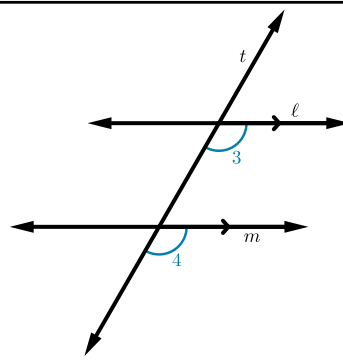
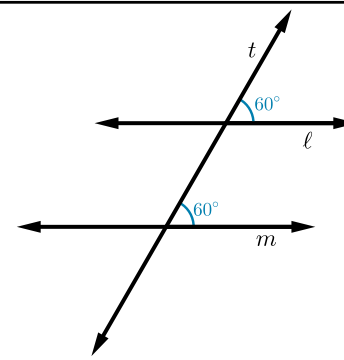


Corresponding Angles Theorem

Examples & Non-Examples

Example	Example	Non-Example
 Since lines l and m are parallel, then angles 1 and 2 are congruent because they are corresponding angles.	 Since lines l and m are parallel, then angles 3 and 4 are congruent because they are corresponding angles.	 Since these are corresponding angles, and they are congruent, then lines l and m must be parallel.

Definition

The **Corresponding Angles Theorem** states:

“If two parallel lines are cut by a transversal, then each pair of corresponding angles is congruent.”

In simpler terms:

- When a **transversal** crosses two **parallel lines**,
- The angles that are in the **same relative position** at each intersection point
- Are **equal in measure**.

Example:

If line $l \parallel m$, and transversal t crosses them, then:

- The angle **above line l** and to the **right of the transversal**
- Is congruent to the angle **above line m** and to the **right of the transversal**

These are **corresponding angles**, and by the theorem, **they are congruent**.

