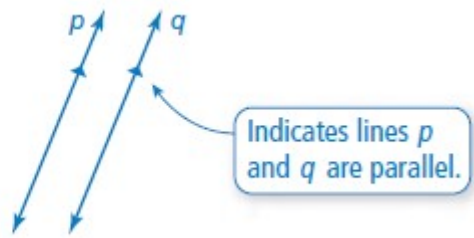
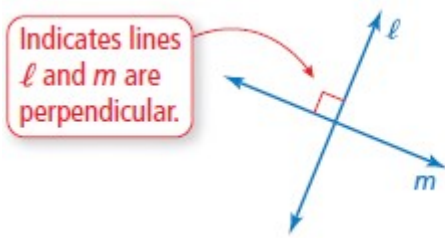
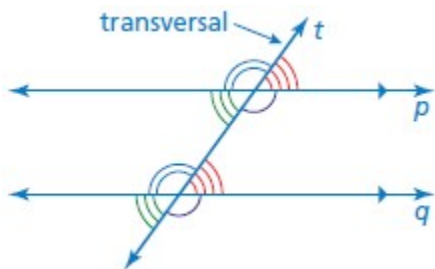


In Class Notes



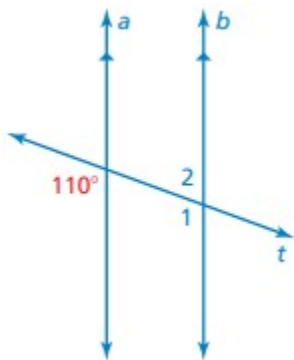
A line that intersects 2 or more lines is called a _____. When parallel lines are cut by a transversal, several pairs of congruent angles are formed.



When a transversal intersects parallel lines, _____
 _____ are congruent.

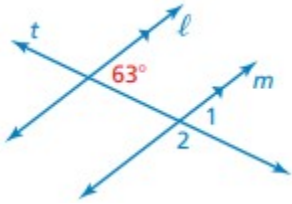
Ex:) Use the figure to find the measures of $\angle 1$ & $\angle 2$. Justify your reasoning.

Notes:



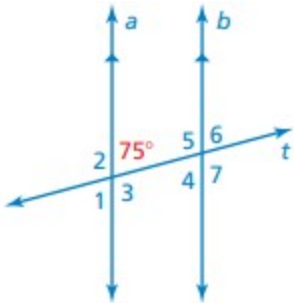
OYO:) Use the figure to find the measures $\angle 1$ & $\angle 2$. Justify your reasoning.

Notes:



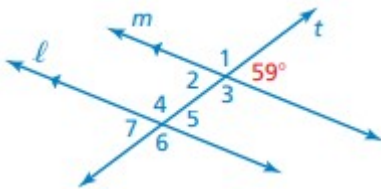
Ex:) Use the figure to find the measures of the numbered angles.

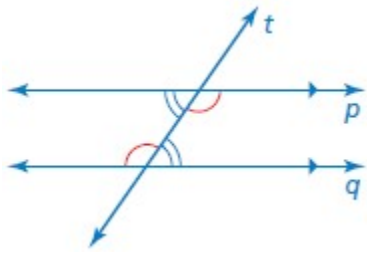
Notes:



OYO:) Use the figure to find the measures of the numbered angles.

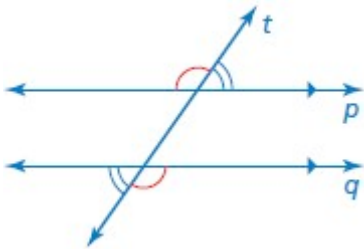
Notes:





When a _____ intersects parallel lines,
 _____,

and



_____ are
 _____.

Ex:) The photo shows a picture of an airport.
 Describe the relationship between each pair of angles.

Notes:



a. $\angle 3$ & $\angle 6$

b. $\angle 2$ & $\angle 7$

OYO:) In the previous example, the measure of $\angle 4$ is 84° .
 Determine the measure of the given angles, and justify your reasoning.

Notes:

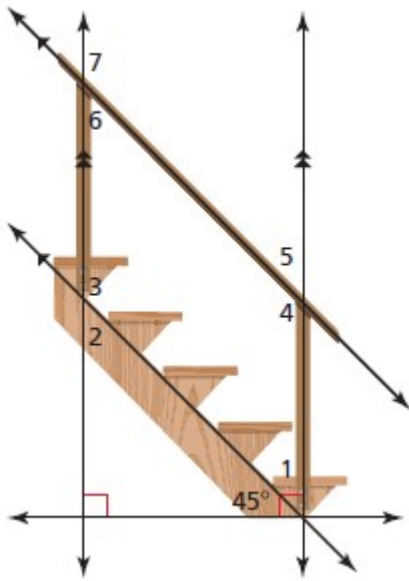
a. $\angle 3$

b. $\angle 6$

Ex:) The stairs have a 45° incline. At what angles do you need to attach a rail to two parallel posts, so that the rail is parallel to the incline of the steps.

Notes:

Use angle relationships to find the measures of $\angle 4$, $\angle 5$, $\angle 6$, and $\angle 7$ that make the rail parallel to the incline of the steps.



OYO:) A cross-section of a pier is shown. Find the value of a . Justify your answer.

Notes:

