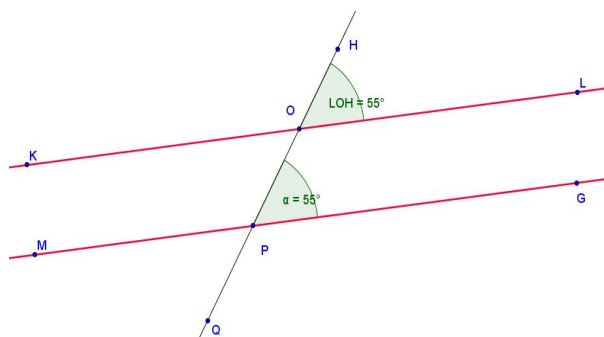


Student Activity Theorem 5

Use in connection with interactive file “Theorem 5” on the Student’s CD.



1. What do you notice about the measure of the angles LOH and GPO? _____

Drag the point H to make the measure of the angle LOH = 30° .

Write down the measure of the angle GPO. GPO = _____

Are the measures of the two angles LOH and GPO equal in measure? _____.
2. Drag the point H to make the measure of the angle LOH = 100° .

What is the measure of the angle GPO? _____.

Are the measures of the two angles LOH and GPO equal? _____
3. The angles LOH and GOP are called CORRESPONDING angles. Drag the point H to various positions. Are these angles LOH and GOP always equal? _____
4. Click on Tick Box to show the wording of this theorem. Are the lines a and b parallel? _____
5. Name another pair of corresponding angles in the diagram.

(i) _____ (ii) _____

Write down the measure of these angles (i) _____ (ii) _____

Are the measures of these angles equal? _____

6. If you were told that the lines a and b are parallel what can we say about the measures of the following pairs of angles,

HOL and OPG _____

QPG and POL _____

QPM and POK _____

Drag the point H to make the angle OPG equal to 90° and then write down the measures of the following angles.

(i) KOH _____

(ii) MPO _____

(iii) QPG _____