

**TAKS Objective 7**  
**TEK G.7B**  
**Tutorial**  
**(Grade 11)**

...use slopes and equations of lines to investigate geometric relationships, including parallel lines, perpendicular lines, and triangles and other polygons.

This objective will  
include skills addressed  
in the first 4 TAKS  
Objectives.

Other material that you need to know  
follows.

Parallel lines have  
slopes that are  
equal.

Perpendicular lines have slopes that  
are opposite reciprocals.

Reminder:  
Slope is rise/run.

Be able to find slope from a graph.

Be able to apply the slope from an equation to a graph.

Be able to find a slope that is an opposite reciprocal.

Be able to solve an equation for  $y$  and then identify the slope and  $y$ -intercept.

If you are given a point other than the  $y$ -intercept, you can still apply the rise and run from slope to find another point and draw a line.

Recall which direction  
negative and positive  
slope lines run.