

TITLE: Parallel or Perpendicular? How Can You Tell?

Subject Area: Math: Geometry-uses slopes and equations of lines to investigate geometric relationships, including parallel lines, perpendicular lines

TAKS Objective: 7

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Grade Level: 9-11

Activity Time: 10 minutes

Device: TI-83 Plus Family, TI-84 Family

Activity Overview: Students will use changes with window settings to understand TAKS questions that require recognizing equations of parallel or perpendicular lines.

Before the Activity

See the attached activity PDF file(s) for detailed instructions for this activity.

Activity Downloads:

Parallel or Perpendicular? How Can You Tell? Teacher Notes

Parallel or Perpendicular? How Can You Tell? Student Worksheet

During the Activity

Follow the procedures outlined in the Activity

Students will:

- Be able to adjust the window to match the graphs of lines parallel or perpendicular to a given graph or equation

After the Activity

Review student answers:

- As a class, discuss questions that arise during the activity
- Re-teach concepts as necessary