

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Perpendicular Lines

In this activity you will use slopes and equations of lines to investigate the relationship of perpendicular lines.

Login to Navnet and go to the Activity Center and wait for further instructions from the teacher.



1. What do you know about the equation of the teacher's line? (Discuss slope, y-intercept, x-intercept, one other characteristic of the line)
2. What do you think is the equation of the teacher's line? How did you arrive at this equation?
3. What are perpendicular lines?
4. What equation did you submit that was perpendicular to the teacher's line?
5. What do you notice about the equations of the lines that are perpendicular to the teacher's line? What do they have in common?
6. Write your conjecture about equations of perpendicular lines.