

# Shake Your Groove Line



## Project Objectives

- Recognize graphs of common relations without hesitation
- Connect equations to equivalent graphs and tables
- Integrate technology and the arts to create a visual representation of equivalent forms of common relations

## Directions

### Dance Project

Develop dance moves to showcase the graphs of various functions. Work with your group to choose your music and choreograph your dance. Include props for visual appeal. Use a sheet of paper to list your equations and draw the graphs. Use a ruler to draw straight lines. When naming your lines, be specific. For example, write  $y = -4$ ; do not write  $y = \text{constant}$ . BE NEAT! Do not procrastinate. Make arrangements with the teacher to stay after school to practice your dance with your group if you need additional time to practice.

### Slideshow Project

Create a digital presentation to showcase the digital images of your group modeling common relations. Graph each equation using a graphing calculator, and include the calculator screens or the equivalent tables and graphs in your project.

The slideshow presentation should be 3- to 5-minutes long. The slideshow should have at least nine slides plus one concluding slide that addresses the question, *How can we communicate ideas through movement?*

## Checklist

- Select music and have it approved by your teacher
- Choose and graph nine equations
- Choreograph the dance
- Collect visual elements of both the poses and graphing calculator images
- Create a slideshow
- Use props and costumes to enhance the visual appeal of your presentation
- Present your dance and slideshow to the class
- Use the Slideshow Checklist to guide the creation of your slideshow