

Graphs Sort (a group activity for 3 or 4)

- 1) Find 2 different ways to sort the equations below into 3 groups of 3.
 - Describe the two ways you have sorted them.
- 2) Now draw the graph for each equation on a different set of axes.
 - Stick each equation onto its graph.
- 3) Find 2 different ways to sort your graphs into 3 groups of 3.
 - Describe the two ways you have sorted them.
- 4) What is the connection between the equation and the shape of the graph?



$y = 2x - 3$	$y = x$	$y = \frac{1}{2}x$
$y = \frac{1}{2}x + 1$	$y = \frac{1}{2}x - 3$	$y = 2x + 1$
$y = x - 3$	$y = 2x$	$y = x + 1$