

## Equations of Parallel and Perpendicular Lines

### KAPS

1. Find the gradient of a line that is parallel to the line with equation
  - a)  $y = -5x + 4$
  - b)  $2y = 5x + 1$
  
2. Find the gradient of a line that is perpendicular to the line with equation
  - a)  $y = -5x + 4$
  - b)  $2y = 5x + 1$
  
3. Find the equation of
  - a) A line parallel to  $y = 4x - 5$  that passes through  $(2, 1)$
  - b) A line parallel to  $y = 2x + 1$  that passes through  $(-3, -4)$
  - c) A line perpendicular to  $y = 3x + 8$  that passes through  $(2, 1)$
  - d) A line perpendicular to  $y = \frac{2}{3}x + 4$  that passes through  $(-3, 5)$

### MAPS

4. Find the equation of a line parallel to  $2x + 3y - 5$  that passes through  $(-2, -1)$