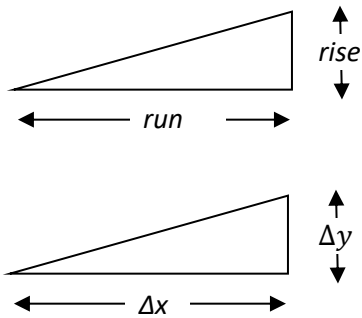


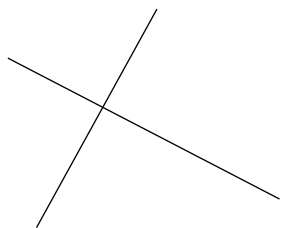
Gradient

1. Complete the following:
 The gradient of a line is the number offor each unit it
 It can be calculated using $gradient = \frac{rise}{run}$ or $gradient = \frac{\Delta y}{\Delta x}$, where Δy is the and Δx is the

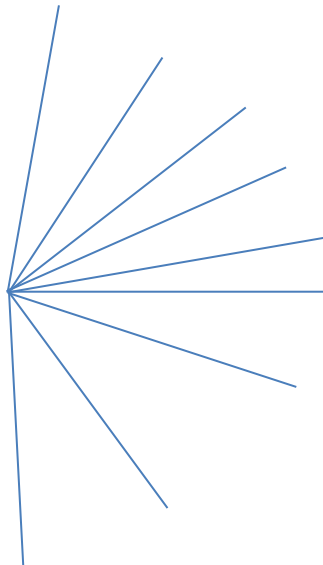


..... lines have the same gradient. With perpendicular lines, the product of the gradients is, so the gradient of one can be worked out from the gradient of the other.

2. Two lines are perpendicular. One has a gradient of 2. What is the gradient of the other?



3. Write an estimate of the gradient at the end of each of these lines.



4. Draw lines with the following gradients from the point shown. Write the gradient at the end of each one.
 0, 1, 20, 0.2, -1, -2, -5



Revision Sheet 91 – Length, gradient and midpoint of lines

For each of the following pairs of points, find

- a. the length of the line joining them
- b. the gradient of the line
- c. the midpoint of the line

1. (0, 1) and (4, 4)

2. (-3, 0) and (2, 5)

3. (-1, 6) and (7, 3)

4. (-5, -2) and (4, -5)