

### Similar Shapes

If the length scale factor is  $k$   
the area scale factor is  $k^2$   
the volume scale factor is  $k^3$

### Vectors

- The modulus/magnitude of a vector is its length. Use Pythagoras.
- To find the resultant of 2 vectors, add them together.
- $\vec{AB} = \vec{OB} - \vec{OA}$

**Direct Proportion:** replace  $x$  with  $kx$ ,... then use the given values to work out  $k$  and sub it in the formula.

e.g.  
 $y$  is directly proportional to the square of  $x$   
 $y \propto x^2$  so  $y = kx^2$

$y$  is inversely proportional to the cube root of  $x$   
 $y \propto \frac{1}{\sqrt[3]{x}}$  so  $y = \frac{k}{\sqrt[3]{x}}$

### Bounds

Start by writing down the **upper and lower bounds** of the values in the question then pick the appropriate ones.

If in doubt do all the combinations and look for the maximum or minimum value.

### Arithmetic (linear) Sequences

$a$  = first term                       $d$  = common difference

$n$ th term =  $a + (n - 1)d$

Sum of first  $n$  terms =  $\frac{n}{2}(2a + (n - 1)d)$

- You may need to use the clues given to write down a pair of simultaneous equations and solve them
- If stuck, write out what you know about the sequence and fill in the gaps.

### Equations of Straight Lines

$y = mx + c$  if you know the gradient and y-intercept  
 $y - y_1 = m(x - x_1)$  if you know the gradient and a point on the line  $(x_1, y_1)$

Two lines are parallel if they have the same gradient

Two lines are perpendicular if the product of their gradients is  $-1$ .

### Transforming $y = f(x)$

$y = f(x + a)$  is a translation  $\begin{pmatrix} -a \\ 0 \end{pmatrix}$

$y = f(x) + a$  is a translation  $\begin{pmatrix} 0 \\ a \end{pmatrix}$

$y = f(ax)$  is a stretch in  $x$ -direction, sf  $1/a$

$y = af(x)$  is a stretch in  $y$ -direction, sf  $a$

$y = f(-x)$  is a reflection in the  $y$ -axis

### Tree Diagrams

- Multiply along the branches
- Add between the branches
- Show all working
- Check whether there is replacement or not

### Trig Graphs - LEARN the shapes and key values

$y = \sin x$



$y = \cos x$



$y = \tan x$



# Higher Mathematics For Gcse

**David Rayner**



## Higher Mathematics For Gcse:

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