

Similar Shapes

If the length scale factor is k the area scale factor is k² the volume scale factor is k³

Vectors

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

Direct Proportion: replace \propto with k \times 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 \boldsymbol{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

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

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 $\begin{pmatrix} 0 \\ a \end{pmatrix}$

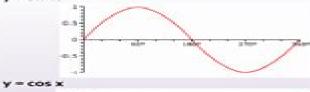
$$y = f(ax)$$
 is a stretch in x-direction, sf $1/a$

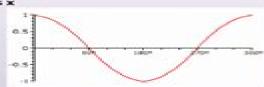
$$y = f(-x)$$
 is a reflection in the y-axis

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 $y = \sin x$







Higher Mathematics For Gcse

David Rayner

Higher Mathematics For Gcse:

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