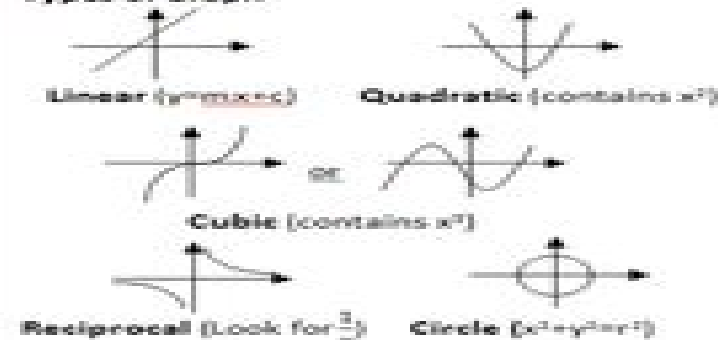


Rules of Indices

$$x^a \times x^b = x^{a+b} \quad x^a + x^b = x^{a+b} \quad x^0 = 1$$

$$(x^a)^b = x^{ab} \quad x^{-a} = \frac{1}{x^a} \quad x^{\frac{1}{b}} = \sqrt[b]{x}$$

Types of Graph



Histograms – the area of the bars represents the frequency. Frequency Density is $\frac{\text{freq}}{\text{width}}$

Cumulative Frequency – plot the upper bound of the class interval and the frequency.

Box Plots



Estimating Mean from a table

Intervals	Frequency	Midpoint $\times f$
	Sum of this	Sum of this

$$\text{Mean} = \frac{\text{sum of (midpoint} \times \text{freq)}}{\text{sum of freq}}$$

Frequency Polygon – plot the midpoint and the frequency/

Comparing datasets – comment on an average (median or mean) and the spread (IQR or range).

Angle Facts

Sum of interior angles in polygon = $(n - 2) \times 180$

One exterior angle of a regular polygon = $\frac{360}{n}$

(Z-angles) Alternate angles are equal

(F-angles) Corresponding angles are equal

(C-angles) Co-interior angles are supplementary

Circles



Surds

$$\sqrt{a} \times \sqrt{a} = a \quad \sqrt{a} \times \sqrt{b} = \sqrt{ab} \quad \sqrt{a} \times b = b\sqrt{a}$$

$$\text{Rationalise the denominator } \frac{1}{\frac{1}{\sqrt{2}}} = \frac{\frac{1}{\sqrt{2}} \times \frac{\sqrt{2}}{\sqrt{2}}}{\frac{\sqrt{2}}{\sqrt{2}}} = \frac{\sqrt{2}}{1} = \sqrt{2}$$

Converting recurring decimals to fractions

Let x = the decimal written out ...
 $\times 10, 100$ or 1000 (check how many digits recur)
 Subtract by aligning the decimal points

Direct/Inverse Proportion

$y = kx^2 \iff y$ is (directly) proportional to x^2

$y = \frac{k}{x^2} \iff y$ is inversely proportional to x^2

Don't forget to re-write this after finding k

Upper Bounds & Lower Bounds

Margins = \pm half what it has been rounded to

UB	LB
UB	LB

Go across the table when dividing or subtracting.

Go down the table when adding/multiplying.

Pythagoras' Theorem – for right-angled triangles

Square, add and square-root for the longest side

Square, subtract and square-root for a shorter side

Basic Trigonometry – for right-angled triangles only

SOH $\frac{\text{opp}}{\text{hyp}}$ *press shift to find angles*

$$\text{CAH } \frac{\text{adj}}{\text{hyp}}$$

$$\text{TOA } \frac{\text{opp}}{\text{adj}}$$



Advanced Trigonometry – for any triangle

Sine Rule – for sides/angles opposite each other.

Cosine Rule

(i) two sides and angle between them is given.

(ii) re-arrange to make cos the

subject to find an angle given three sides.

Speed is distance/time $\frac{d}{t}$

Density is mass/volume $\frac{m}{v}$

Area of a circle is πr^2 *for sectors $\times \frac{\theta}{360}$

Circumference is $2\pi r$ *for arcs $\times \frac{\theta}{360}$

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
















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