Coordinate geometry

IGCSE Mathematics · Vocabulary in context

Word	Example
coordinates /kəʊˈɔːdɪnəts/	The **coordinates** of the point are (3, 4). (3, 4)
axes /ˈæksɪz/	Draw the x and y **axes**. x y
horizontal /ˌhɒrɪˈzɒntl/	The floor is **horizontal**.
vertical /ˈvɜːtɪkl/	A falling stone moves in a **vertical** line.
origin /ˈɒrɪdʒɪn/	The line y = 2x passes through the **origin**. y = 2x
quadrants /ˈkwɒdrənts/	The axes divide the grid into four **quadrants**.
gradient /ˈgreɪdɪənt/	The **gradient** of a distance-time graph gives the speed. –
intercept /ˌɪntəˈsept/	The line crosses the y-axis at the **intercept**. y
table of values /ˈteɪbl ɒv ˈvæljuːz/	Make a **table of values** before drawing the graph.
line segment /laɪn ˈsegmənt/	A **line segment** has two ends.
length /leŋθ/	Measure the **length** of the table with a ruler.
Pythagoras' theorem /paɪˈθægərəs ˈθɪərəm/	**Pythagoras' theorem** says $a^2 + b^2 = c^2$. $a^2 + b^2 = c^2$
midpoint /ˈmɪdpɔɪnt/	The **midpoint** of (0, 0) and (4, 6) is (2, 3). (0, 0) (4, 6) (2, 3)
surd /sɜːd/	A **surd** such as √5 is a root that cannot be simplified to a whole number. √5

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parallel /ˈpærəlel/	**Parallel** lines have equal gradients and never meet.
simultaneous equations /ˌsɪməlˈteɪnɪəs ɪˈkweɪʒnz/	Solve the **simultaneous equations** to find both x and y.
perpendicular /ˌpɜːpənˈdɪkjʊlə/	The wall is **perpendicular** to the floor.
right angle /raɪt ˈæŋgl/	A **right angle** is 90°.
perpendicular bisector /ˌpɜːpənˈdɪkjʊlə baɪˈsektə/	Every point on the **perpendicular bisector** is the same distance from both ends.

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