Further Pure Mathematics 1

Pearson Edexcel · International A-Level · Further Mathematics · Vocabulary in context

Word	Example
complex number /ˈkɒmpleks ˈnʌmbə/	The **complex number** 4 + 3i has real part 4. 4 + 3i 4
real part /rɪəl pɑːt/	In 3 + 4i, the **real part** is 3. 3 + 4i 3
imaginary part /ɪˈmædʒɪnəri pɑːt/	In 3 + 4i, the **imaginary part** is 4. 3 + 4i 4
conjugate /ˈkɒndʒuːgeɪt/	The **conjugate** of 3 + 4i is 3 − 4i. 3 + 4i 3 − 4i
Argand diagram /ˈɑːgænd ˈdaɪəgræm/	An **Argand diagram** shows complex numbers as points.
modulus /ˈmɒdjʊləs/	The **modulus** of 3 + 4i is 5. 3 + 4i 5
argument /ˈɑːgjuːmənt/	A positive real number has **argument** zero.
interval bisection /ˈɪntəvl baɪˈsekʃn/	**Interval bisection** halves the interval again and again to trap a root.
linear interpolation /ˈlɪnɪə ɪnˌtɜːpəˈleɪʃn/	To estimate the median, use **linear interpolation**.
Newton–Raphson method /ˈnjuːtn ˈræfsn ˈmeθəd/	The **Newton–Raphson method** uses tangent lines to get closer to a root.
parabola /pəˈræbələ/	A thrown ball follows a **parabola**.
focus /ˈfəʊkəs/	The Sun is at one **focus** of a planet's elliptical orbit.

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directrix /daɪˈrektrɪks/	Every point on a parabola is the same distance from the focus and the **directrix**.
rectangular hyperbola /rekˈtæŋgjələ haɪˈpɜːbələ/	y = 4/x is a **rectangular hyperbola**. y = 4/x
singular /ˈsɪŋgjələ/	A **singular** matrix has no matrix inverse.
area scale factor /ˈeərɪə skeɪl ˈfæktə/	The determinant of a matrix gives the **area scale factor**.
Induction /ɪnˈdʌkʃn/	**Induction** proves a statement for n = 1, then shows each case gives the next. n = 1