Quadratics Course Notes

* Solving quadratic equations using factorising (find the roots)
* Solving quadratic equations using the quadratic formula
* The discriminant to determine the nature of the roots
* Quadratic graphs at the origin and shifted up/down
* Quadratic graphs in completing square form
* Quadratic graphs and roots
* Sketching quadratic graphs

[1: Quadratics Recap](https://youtu.be/8z35iFEHeEQ) This summarises the key examples from the different lessons with the full lessons below with more examples.



[1: Solving quadratics using factorising](https://youtu.be/djsU_iQ5yMQ) (You can watch the video below or click on the link to take you to the webpage)

* FULL LESSON – Examples are at 4:50 – 15:05



[2: Quadratic formula](https://youtu.be/e2QRDFM_Akc) (You can watch the video below or click on the link to take you to the webpage)

* FULL LESSON – Examples are at 2:38 – 9:00



[3: Discriminant](https://youtu.be/RQ1aIlnuXk8) (You can watch the video below or click on the link to take you to the webpage)

* FULL LESSON – Examples are at 5:03 – 10:37



[1: Quadratic graphs and equations](https://youtu.be/pHNH7sSg91k) (You can watch the video below or click on the link to take you to the webpage)

* FULL LESSON – Examples are at 8:32 – 20:41



[2: Completed square form](https://youtu.be/HXLXOC6wfX0) (You can watch the video below or click on the link to take you to the webpage)

* FULL LESSON – Examples are at 3:33 – 17:29



[3: Sketching quadratics with roots and axis of symmetry](https://youtu.be/Zl0TzPpNreQ) (You can watch the video below or click on the link to take you to the webpage)

* FULL LESSON – Examples are at 4:03 – 23:30



[4: Sketching quadratics](https://youtu.be/ywyl8k0_Wjw) (You can watch the video below or click on the link to take you to the webpage)

* FULL LESSON – Examples are at 6:02 – 16:17

