

Conic Section Videos

Conic Section Intro:

[Conic Section 3D Animation - YouTube](#)

Circle videos:

<https://www.youtube.com/watch?v=XyDMsotfJhE> (complete the square to get into Standard Form)

<https://www.youtube.com/watch?v=acEMeYxaa4E> (another General Form to Standard Form)

Ellipse videos:

<https://www.youtube.com/watch?v=QR2vxfwiHAU> (first part)

https://www.youtube.com/watch?v=Et3OdzEGX_w (string)

<https://www.youtube.com/watch?v=km7Juq6uqE8> (h, k)

<https://www.youtube.com/watch?v=1ba4DaKxM94> (Gen.form to Standard Form)

(Note – don't get confused when he fixes a mistake that he made in copying the original problem – the 36 was never meant to be there – it was supposed to be "32" all along.)

Hyperbola Videos:

[Conic Sections: Hyperbolas, An Introduction - Graphing Example - YouTube](#)

[Hyperbolas - Conic Sections - YouTube](#) (For our purposes this year, you must be able to go back and forth between equation and graph. *For hyperbolas, you must use asymptotes, but I'm not requiring you to know the equations for them – especially when transformations with (h,k) are involved.*)

Parabola Videos:

[Focus and directrix introduction | Conic sections | Algebra II | Khan Academy - YouTube](#) (intro, def.)

[LearnNext Class 11 Mathematics | Conic Sections | Parabola and its Standard Equations - YouTube](#)

[Parabolas - Conic Sections - YouTube](#)

[Finding the standard form of a parabola given focus and directrix - YouTube](#)

