

QUADRATIC FUNCTIONS

Quadratic: <https://www.youtube.com/watch?v=A3A7Bv-ElJU>

Domain/Range: <https://www.youtube.com/watch?v=nmMwY-CpBMY>

Quadratic transformations: <https://www.youtube.com/watch?v=YO40OB1DPWw>

Parabolas

Parabola key features/vocab:

Opens down: <https://www.youtube.com/watch?v=yqseYUCduTE>

Opens up: <https://www.youtube.com/watch?v=H46QVUdbBn0>

Quadratic Forms

Standard form: <https://www.youtube.com/watch?v=vphPafWDZkw>

Vertex form: <https://www.youtube.com/watch?v=y99lNRqLjBA>

Factored form: <https://www.youtube.com/watch?v=e-SfJiLh0k>

Ways to Solve/Finding Solutions

Solutions by graphing: <https://www.youtube.com/watch?v=8Pk2VN6wzqU>

Solutions by Factoring:

https://www.youtube.com/watch?annotation_id=annotation_2082265879&feature=iv&src_vid=1T-rsltsWnM&v=y0Zfzaj1x48

Square root method: <https://www.youtube.com/watch?v=RMwoe8sRYvg>

Completing the Square: <https://www.youtube.com/watch?v=MVW9EoEiLgc>

Quadratic Formula: <https://www.youtube.com/watch?v=H5AM1bzqCQw>

Factoring

GCF: https://www.youtube.com/watch?v=UxBO7GXFh_Y

$a = 1$: <https://www.youtube.com/watch?v=Mso0lciztHk>

$a > 1$: <https://www.youtube.com/watch?v=r1JAJfmRG5w>

Difference of Perfect Squares:

$a = 1$ https://www.youtube.com/watch?v=AcCN_isD3PY

$a \neq 1$ <https://www.youtube.com/watch?v=jmbg-DKWuc4>

Converting:

Vertex to standard: <https://www.youtube.com/watch?v=z3vMeBv-wtg>

Standard to Vertex: <https://www.youtube.com/watch?v=FezeWsRrJz0>

Real-World Application

Area Model: <https://www.youtube.com/watch?v=owR0ABAOQbE>

<https://www.youtube.com/watch?v=QAhYUBI1WW8>

Projectiles: <https://www.youtube.com/watch?v=TzRQSD3iQA4>

Quadratic Regression:

DESMOS: https://www.youtube.com/watch?v=cer_oSOgdIY

NSPIRE: <https://www.youtube.com/watch?v=YyOmkTF07T4>