

Online Resources: You are **not required** to watch them. You **will want to watch** some of them to review some of the lessons you may have forgotten or need to relearn.

## Algebra 2

### Logarithmic and Exponential Functions

1. "Logarithms ... How" <https://www.youtube.com/watch?v=Zw5t6BTQYRU>

### Quadratics

1. Solving Quadratic Equations by Factoring <https://www.youtube.com/watch?v=SDe-1IGeS0U>
2. Factoring Quadratics using the Diamond (X) Method  
[https://www.youtube.com/watch?v=YtN9\\_tCaRQc](https://www.youtube.com/watch?v=YtN9_tCaRQc)
3. Solve by Completing the Square [https://www.youtube.com/watch?v=prx\\_Bf2hakw](https://www.youtube.com/watch?v=prx_Bf2hakw)
4. Simplify Radicals <https://www.youtube.com/watch?v=BPY7gmT32XE>
5. Factoring with DOTS (Difference of Two Squares)  
<https://www.youtube.com/watch?v=qyVzH3e1dY>
6. Solve Radical Equations <https://www.youtube.com/watch?v=iPs-uEgwZZQ>
7. Long Division of Polynomials [https://www.youtube.com/watch?v=RPXMBIFG\\_W4](https://www.youtube.com/watch?v=RPXMBIFG_W4)

## Geometry

1. Pythagorean Theorem for Right Triangles  $a^2 + b^2 = c^2$   
<https://www.youtube.com/watch?v=yWwEGZZ8zwA>
2. Equations of Lines  $y = mx + b$  (slope-intercept)  
<https://www.youtube.com/watch?v=hm76zOESjT0>
3. Equations of Lines  $y - y_1 = m(x - x_1)$  (point-slope)  
<https://www.youtube.com/watch?v=0bqr9Fo3Qi8>
4. Slopes of Parallel and Perpendicular Lines [https://www.youtube.com/watch?v=hQ64ZoDvN\\_k](https://www.youtube.com/watch?v=hQ64ZoDvN_k)
5. Segment Addition and Midpoint <https://www.youtube.com/watch?v=Fd751P6X11Q>
6. Solving Proportions <https://www.youtube.com/watch?v=onvlpTEbECI>

## Algebra 1

### Functions

1. Vertical Line Test <https://www.youtube.com/watch?v=96VqHrvZdXw>
2. Domain and Range from a Graph <https://www.youtube.com/watch?v=fyROLkZc75E>
3. Slope of a Line from its Graph <https://www.youtube.com/watch?v=c-iK1SCCINc>
4. Solve Two-Step Linear Equations <https://www.youtube.com/watch?v=mW1mcPGPdvw>

## PreAlgebra

1. Probability <https://www.youtube.com/watch?v=zpSE-xQ2gHE>
2. Tree Diagrams for Probability <https://www.youtube.com/watch?v=1Ch0wb4MAS8>
3. Mean, Median, and Mode <https://www.youtube.com/watch?v=5C9LBF3b65s>
4. Scientific Notation <https://www.youtube.com/watch?v=DXTuYjPDjqQ>
5. Order of Operations <https://www.youtube.com/watch?v=ZzeDWFhYv3E>