

## 5.1 Graphing linear equations

Using data points <https://www.youtube.com/watch?v=0csg3HPgKgI>

Using intercepts <https://www.youtube.com/watch?v=x55mt4FetFY>

Using Slope Intercept <https://www.youtube.com/watch?v=xyVJZKu7Euw>

## 5.2 Functions

<https://www.youtube.com/watch?v=oFwRPH0JrFY>

<https://www.youtube.com/watch?v=M6J9gitUP8I>

Domain and Range <https://www.youtube.com/watch?v=uz0fgAbLLjg>

## 5.3 Function notation

<https://www.youtube.com/watch?v=Kj3Aqov52TY>

<https://www.youtube.com/watch?v=Kj3Aqov52TY>

## 5.4 Finding equations of lines

Slope intercept/point slope methods <https://www.youtube.com/watch?v=NR8NNzLAd0I>

Point/slope method [https://www.youtube.com/watch?v=GFM8NOe\\_XM4\\_t](https://www.youtube.com/watch?v=GFM8NOe_XM4_t)

Parallel and Perpendicular [https://www.youtube.com/watch?v=ECIjEiIgX\\_M](https://www.youtube.com/watch?v=ECIjEiIgX_M)

## 5.5 Linear models

<https://www.youtube.com/watch?v=5EdbPz1ZVn0>

<https://www.youtube.com/watch?v=Rq56-OJR964>

<https://www.youtube.com/watch?v=9MBTvI-uYXg>

## 5.6 Linear functions as models

<https://www.youtube.com/watch?v=NBdtKR3btvs>

<https://www.youtube.com/watch?v=VEuVSmwY30w>

## 5.7 Solving Linear inequalities

[https://www.youtube.com/watch?v=VgDe\\_D8ojxw](https://www.youtube.com/watch?v=VgDe_D8ojxw)

compound inequalities <https://www.youtube.com/watch?v=A3xPhzs-KBI>

### 6.1 Solving two equations by graphing

[https://www.youtube.com/watch?v=b\\_GDh5g62ew](https://www.youtube.com/watch?v=b_GDh5g62ew)

### 6.2 Solving two equations by substitution

[https://www.youtube.com/watch?v=kf-o\\_CcTKH8](https://www.youtube.com/watch?v=kf-o_CcTKH8)

<https://www.youtube.com/watch?v=fpheMP2DgsA>

### 6.3 Solving two equations by elimination

<https://www.youtube.com/watch?v=8kRG7jlBMAY>

<https://www.youtube.com/watch?v=SOfpTIIKnw0>

### 6.4 Modelling data

<https://www.youtube.com/watch?v=UdaH6zkt-3A>

### 6.5 Applied Problems

Perimeter <https://www.youtube.com/watch?v=rq1TfqDJ4jM>

Mixture <https://www.youtube.com/watch?v=il2Mf5706hk>

Value <https://www.youtube.com/watch?v=cOLa2h9B7YI>

Solution <https://www.youtube.com/watch?v=9nQmEQk09ko>

<https://www.youtube.com/watch?v=1LtKCa7k6KU>

### 6.6 Linear inequalities in two variables and systems of two equations

<https://www.youtube.com/watch?v=lxTQrsUip9g>

<https://www.youtube.com/watch?v=5xQqwgS3O4U>

### 7.1 Adding and Subtracting Polynomials

Adding <https://www.youtube.com/watch?v=5MA1eZVegg4>

Subtracting <https://www.youtube.com/watch?v=8TvJoktfYzw>

### 7.2 Multiplying Polynomials

[https://www.youtube.com/watch?v=Izf\\_mGQkEns](https://www.youtube.com/watch?v=Izf_mGQkEns)

### 7.3 Difference of squares and binomial squared using FOIL

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

### 7.4 Properties of Exponents

<https://www.youtube.com/watch?v=Kr16rdBMX4o>

<https://www.youtube.com/watch?v=vBMYNH-Bi8s>

[https://www.youtube.com/watch?v=b\\_1GUPDOgZg](https://www.youtube.com/watch?v=b_1GUPDOgZg)

### 8.1 Factoring quadratic polynomials $a = 1$

[https://www.youtube.com/watch?v=q6\\_pWifXKcQ](https://www.youtube.com/watch?v=q6_pWifXKcQ)

### 8.2 Factoring GCF

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

<https://www.youtube.com/watch?v=X-x8o0Wvdb0>

### 8.3 Factoring quadratic polynomials $a \neq 1$ ac method

<https://www.youtube.com/watch?v=S3GNmhl0-sU>

### 8.3 Factoring quadratic polynomials $a \neq 1$ ac method with high numbers

<https://www.youtube.com/watch?v=Fy9soTRBm74>

### 8.3 Factoring Trinomials with Leading Coefficient not 1 (fast way)

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

### 8.3 Factoring by grouping ac method

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

### 8.4 Factoring sums and differences of cubes

<https://www.youtube.com/watch?v=eXjxF1I9o4E>

### 8.5 Solving quadratic equations by factoring

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

### 9.1 Graphing parabolas

<https://www.youtube.com/watch?v=ZJDM4TE6I30>

## 9.2 Finding the vertex of a parabola and graphing

<https://www.youtube.com/watch?v=rnkk0rC9Gyo>

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

## 9.3 Radicals

[https://www.youtube.com/watch?v=M\\_zljMICB3k](https://www.youtube.com/watch?v=M_zljMICB3k)

Imaginary numbers

<https://www.youtube.com/watch?v=uK99ImJV-Pw>

## 9.4 Using the square root property to solve quadratic equations

<https://www.youtube.com/watch?v=e478-U35XYI>

## 9.5 completing the square to solve quadratic equations

<https://www.youtube.com/watch?v=DJMH2F3Gulc>

<https://www.youtube.com/watch?v=bclm1tJB-3g>

## 9.6 Quadratic formula to solve quadratic equations

<https://www.youtube.com/watch?v=DJMH2F3Gulc>

<https://www.youtube.com/watch?v=3ayhvAI3IeY>

## 10.1 Integer exponents with negative exponents

<https://www.youtube.com/watch?v=mfrvdCngvq0>

<https://www.youtube.com/watch?v=Kr16rdBMX4o>

## 10.2 Rational Exponents

<https://www.youtube.com/watch?v=kCnba1bV4IE>

<https://www.youtube.com/watch?v=m4sX4FQOyoo>

<https://www.youtube.com/watch?v=9UB2TpHPGo0>

## 10.3 Graphing exponential equations

<https://www.youtube.com/watch?v=9SOSfRNCQZQ>

<https://www.youtube.com/watch?v=xp1TeBfkLPg>

<https://www.youtube.com/watch?v=BiYfl-qUxLY>

Finding exponential equations given two points

<https://www.youtube.com/watch?v=-CkBIFcBI4A>

<https://www.youtube.com/watch?v=rOB9hh8qISU>

Finding the y-intercept <https://www.youtube.com/watch?v=UyyUgTEIJAE>

Finding equation from a graph <https://www.youtube.com/watch?v=vmFiraM8qTw>

### 11.3 Finding Log values

<https://www.youtube.com/watch?v=ZlwmZ9m0byI>

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

### 11.4 and 11.6 Properties of Logs

<https://www.youtube.com/watch?v=AAW7WRFBKdw>

### 11.4-6 Solving log equations

<https://www.youtube.com/watch?v=fO06womr41k>

more complex equations [https://www.youtube.com/watch?v=NRjfc\\_u-vyQ](https://www.youtube.com/watch?v=NRjfc_u-vyQ)

[https://www.youtube.com/watch?v=UZS2\\_lgFuw](https://www.youtube.com/watch?v=UZS2_lgFuw)

### 11.7 Natural Logs = ln

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

Solving equations <https://www.youtube.com/watch?v=grD2eZgLqIE>

### 12.1 Finding Domains of Rational Functions

<https://www.youtube.com/watch?v=He96RPafUj0>

<https://www.youtube.com/watch?v=7eOGsqbjWqY>

domains of many functions <https://www.youtube.com/watch?v=hZEGZMb4uzQ>

### 12.1 Simplifying rational functions

<https://www.youtube.com/watch?v=zBjjL-17ItU>

[https://www.youtube.com/watch?v=x6XyP2\\_RfA4](https://www.youtube.com/watch?v=x6XyP2_RfA4)

<https://www.youtube.com/watch?v=ilXb80DGEIk>

12.2 Multiplying and dividing rationals

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

12.3 Adding and Subtracting rationals

<https://www.youtube.com/watch?v=SiD8BWrpEqE>

12.4 Complex fractions

Method 1 <https://www.youtube.com/watch?v=jSnHRp8TjXY>

Method 2 <https://www.youtube.com/watch?v=01UAMu531og>

<https://www.youtube.com/watch?v=aMswqN951OY>

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

12.5 Solving rational equations

<https://www.youtube.com/watch?v=vWhZPbt7Kh4>

13.1 Simplifying radicals

<https://www.youtube.com/watch?v=6QJtWfliyZo>

13.2 Simplifying and adding radicals

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

<https://www.youtube.com/watch?v=YMny-hM1NNA>

13.2 Multiplying radicals

<https://www.youtube.com/watch?v=NQE-scWKDlw>

13.3 Rationalize the denominator

<https://www.youtube.com/watch?v=gY5TvIHg4Vk>

13.5 Solving Square root equations

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

<https://www.youtube.com/watch?v=NGag3kmub9o>

### 13.5 Solving more complicated radical equations

[https://www.youtube.com/watch?v=5pqzmUxOw\\_E](https://www.youtube.com/watch?v=5pqzmUxOw_E)

### 13.5 Extraneous solutions to radical equations

<https://www.youtube.com/watch?v=CV64oTCzp3s>

