

## Trig Chapter 2 Videos

### 2.2

Graphing, d&r from Vertex form

[https://www.youtube.com/watch?v=OHH7fX\\_M8Ns](https://www.youtube.com/watch?v=OHH7fX_M8Ns)

Graphing, d&r from standard form [https://www.youtube.com/watch?v=Hq2Up\\_1lh5E](https://www.youtube.com/watch?v=Hq2Up_1lh5E)

[00:32](#) Vertex form ( $Y=A(x-H)^2+K$ )

[18:58](#) Standard form ( $Y=Ax^2+Bx+C$ )

[30:10](#) Word Questions

### 2.3

End Behavior - <https://youtu.be/tZKzaF28sOk>

### 2.4

Long division

[https://www.youtube.com/watch?v=RPXMBIFG\\_W4](https://www.youtube.com/watch?v=RPXMBIFG_W4)

<https://www.youtube.com/watch?v=SbUiZx5a0Ok>

synthetic division

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

Remainder Theorem

<https://www.youtube.com/watch?v=p1ISRAeEMRO>

Is this a factor?

<https://www.khanacademy.org/math/algebra-home/alg-polynomials/alg-polynomial-remainder-theorem/v/polynomial-remainder-theorem-to-test-factor>

## 2.5

Zeros of polynomial function using p&q and division:

<https://www.youtube.com/watch?v=laq7z7reznM>

Start video at 11:40: <https://www.youtube.com/watch?v=Gfe2pnwivk4>

Writing polynomial given zeros

<https://www.youtube.com/watch?v=xHcA6VdjqU>

With imaginary roots

<https://www.youtube.com/watch?v=yjE5AT9m2eQ>

With complex numbers

<https://www.youtube.com/watch?v=COryZEJ9kT0>

Descartes Rule of Signs

<https://www.youtube.com/watch?v=YaU5JTe3cPU> (lots of examples)

## 2.6

Graphing Rational Functions (regular, with hole and slant asymptote)

<https://www.youtube.com/watch?v=0V4eksfQCO0>

Start video at 4:58 <https://www.youtube.com/watch?v=bWVhwYdSnfk>

Graphing with Domain and range (regular and with hole)

<https://www.youtube.com/watch?v=qGCKjuhA4eQ>