POLYNOMIAL Functions

What are polynomials? https://www.youtube.com/watch?v=xmJjQ3KyTdw

Polynomial Functions (start at the 2 min mark): https://www.youtube.com/watch?v=xzcwzBiD5w8

End Behavior: https://www.youtube.com/watch?v=k6JppISqhj4

PROPERTIES WITH POLYNOMIALS

Adding: https://www.youtube.com/watch?v=ahdKdxsTj8E

Subtracting: https://www.youtube.com/watch?v=5ZdxnFspyP8

Adding/Subtracting Polynomials: https://www.youtube.com/watch?v=-1Mxuqifo1k

Multiplying: https://www.youtube.com/watch?annotation_id=annotation_2909028083&feature=iv&src_vid=wUYa2NAV5t4&v=J18DrAkvaYg

   FOIL: https://www.youtube.com/watch?v=BbaCM1S70bA

   Punnett Square: https://www.youtube.com/watch?v=VNZLqJhsnv0

   Pascal's Triangle: https://www.youtube.com/watch?v=YUqHdxxdbyM

Dividing:

   Dividing: https://www.youtube.com/watch?v=403jaUhnX8I

      a = 1 https://www.youtube.com/watch?v=_3BSl7oNABM

      a > 1: https://www.youtube.com/watch?v=WIZOU5Cc6aQ

   Synthetic Division: https://www.youtube.com/watch?v=bZoMz1Cy1T4

   Long Division: https://www.youtube.com/watch?v=FTRDPB1wR5Y

   Remainder Theorem: https://www.youtube.com/watch?v=MHtTP6vc4RU

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

Grouping:
https://www.youtube.com/watch?annotation_id=annotation_1740409739&feature=iv&src_vid=-hiGJwMNNsM&v=lsn-gwWh_hw

DIFFERENCE OF PERFECT SQUARES:

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

 a not 1 https://www.youtube.com/watch?v=jmbg-DKWuc4

SUMS and DIFFERENCES of CUBES: https://www.youtube.com/watch?v=eXjxF1I9o4E

Factor Theorem: https://www.youtube.com/watch?v=P-RvhBqBPOA

SOLVING

Factoring: https://www.youtube.com/watch?v=g7_llQnLepA

Rational Root Theorem: https://www.youtube.com/watch?v=nefUHSlCSgY

Irrational Conjugate Theorem: https://www.youtube.com/watch?v=ZQjq-o9ZBek

THEOREMS

Fundamental Theorem of Algebra: https://www.youtube.com/watch?v=d8-LO6FCna0

Complex Conjugate Root Theorem: https://www.youtube.com/watch?v=5N8xDwNe8og

Descartes Rule of Signs: https://www.youtube.com/watch?v=G7T1EY9i44Y

TRANSFORMATIONS

Transforming Polynomials: https://www.youtube.com/watch?v=W3507Fkw1No

Analyzing Graphs of Polynomials: https://www.youtube.com/watch?v=_Q_kmUHOays

Turning Points: https://www.youtube.com/watch?v=Fs9wYJAWSk8

Real-Life Application: https://www.youtube.com/watch?v=EvvxBdNIUeQ