

UNIT 11: RATIONAL EQUATIONS AND FUNCTIONS

Part A: Video Tutorial Section

Video 1:

<https://www.youtube.com/watch?v=92U67CUy9Gc> (Introduction to Direct and Inverse Variation)

Videos 2 and 3:

https://www.youtube.com/watch?v=La_HU1PXNMw (Direct and Inverse Variation Given a Table)

<https://www.youtube.com/watch?v=92U67CUy9Gc> (More Examples of Direct and Inverse Variation Given a Table)

Videos 4 and 5:

<https://www.youtube.com/watch?v=o31s1daJaWw> (Writing a Graphing a Direct Variation Equation)

<https://www.youtube.com/watch?v=Izx7RH3uM1w> (More Examples Writing a Graphing a Direct Variation Equation)

Video 6 and 7:

<https://www.youtube.com/watch?v=YTv6Eqim8sg> (Writing a Graphing an Inverse Variation Equation)

<https://www.youtube.com/watch?v=YTv6Eqim8sg> (More Examples of Writing a Graphing an Inverse Variation Equation)

Videos 8 and 9:

<https://www.youtube.com/watch?v=jLJA-nHgHz0> (Finding the Excluded Value of a Rational Function)

<https://www.youtube.com/watch?v=81O1lXb4Cno> (More Examples of Finding the Excluded Value of a Rational Function)

Video 10 and 11

<https://www.youtube.com/watch?v=0V4eksfQCO0> (Graphing a Rational Function)

<https://www.youtube.com/watch?v=LFjf22W9RBo> (More Examples of Graphing a Rational Function)

Video 12:

<https://www.youtube.com/watch?v=NWXM3nM59SE> (Graphing a Rational Function Using a GRAPHIC CALCULATOR)

Videos 13 and 14:

<https://www.youtube.com/watch?v=qGCKjuhA4eQ> (Identifying Asymptotes)

<https://www.youtube.com/watch?v=YIEFGmfiNis> (More Examples of Identifying Asymptotes)

Videos 15 and Video 16:

<https://www.youtube.com/watch?v=uVpsz-xpnPo> (Simplifying Rational Expressions)

<https://www.youtube.com/watch?v=uVpsz-xpnPo> (More Examples of Simplifying Rational Expressions)

Videos 17 and 18:

<https://www.youtube.com/watch?v=D-dRz-ebr-E> (How to State the Excluded Value)

<https://www.youtube.com/watch?v=3Hhfq6KsvQ> (More Example of Finding the Excluded Value)

Video 19 and 20:

<https://www.youtube.com/watch?v=WbvLjmK4Kmc> (Multiplying and Dividing Rational Expressions)

https://www.youtube.com/watch?v=x_5hDLe8UL0 (More examples of Multiplying and Dividing Rational Expressions)

Videos 21 and 22:

<https://www.youtube.com/watch?v=FXgV9ySNusc> (Dividing Polynomials Rational Expressions)

<https://www.youtube.com/watch?v=FXgV9ySNusc> (More Examples of Dividing Polynomials Rational Expressions)

Videos 23 and 24:

<https://www.youtube.com/watch?v=3tmFTHOP6Pc> (Adding & Subtracting Rational Expressions)

https://www.youtube.com/watch?v=y_DweTAEYWk (More Examples of Adding & Subtracting Rational Expressions)

Videos 25 and 26:

<https://www.youtube.com/watch?v=7bTGyu0mq0c> (Solving Rational Equations

Using Cross Multiplication)

<https://www.youtube.com/watch?v=OF1aLNICWUQ> (More Examples of Solving Rational Equations

Using Cross Multiplication)

Videos 27 and 28:

<https://www.youtube.com/watch?v=OConw8IlqQQ> (Solving Rational Equations

Using Least Common Denominator)

<https://www.youtube.com/watch?v=4FhRBYwDvwA> (More Examples of Solving Rational Equations

Using Least Common Denominator)

Part B : Vocabulary, Hints and Explanations