

Rational Expressions and Functions

Simplifying Expressions

Multiplying rational expressions

<http://www.youtube.com/watch?v=-aZ0a7aMiPE>

http://www.youtube.com/watch?v=k1coTSX5_s

Dividing rational expressions

<http://www.youtube.com/watch?v=Fdie6CqInyg>

<http://www.youtube.com/watch?v=jqRImYJU8oE>

Complex fractions without variables

<http://www.youtube.com/watch?v=PTbRMIRXWaY>

<http://www.youtube.com/watch?v=Sl4Zrw8soPA>

<http://www.youtube.com/watch?v=ZC8AiXTcjKw>

Complex fraction

<http://www.youtube.com/watch?v=SCFgeT69few>

<http://www.youtube.com/watch?v=WUvUznrOXDo>

Adding rational expressions with common denominator

<http://www.youtube.com/watch?v=9ZFafm0vglQ>

<http://www.youtube.com/watch?v=gPyrMluzus8>

Adding rational expressions

<http://www.youtube.com/watch?v=K4VyHxglUts>

http://www.youtube.com/watch?v=b4iq_WQ19Io

Adding rational expressions with different denominators

<http://www.youtube.com/watch?v=nKILMiNNfSo>

<http://www.youtube.com/watch?v=omv7Di2o8-Y>

Adding and subtracting rational expressions

<http://www.youtube.com/watch?v=FZdt73khrxA>

<http://www.youtube.com/watch?v=lj49aFwJPL0>

Ratio of multivariate polynomials

<http://www.youtube.com/watch?v=xPNwdbmhmaA&feature=related>

Simplifying a ratio of polynomials

<http://www.youtube.com/watch?v=WB7gPfsv6rQ>

Solving Equations

Domain of a rational function

<http://www.youtube.com/watch?v=FzThUEzQeXo>

<http://www.youtube.com/watch?v=pq5k5Ss5tpQ>

Solving a rational equation that simplifies to a linear equation

<http://www.youtube.com/watch?v=FMfqBKfwkKc>

<http://www.youtube.com/watch?v=JkhePJajfEc>

Solving a rational equation that simplifies to a quadratic equation

<http://www.youtube.com/watch?v=Y6x06SBbEcA>

<http://www.youtube.com/watch?v=QrsITliwUY>

<http://www.youtube.com/watch?v=LtmIWl1VQQ>

Applications

Word problem on rates

http://www.youtube.com/watch?v=DiTUwufDTJk&feature=Playlist&p=DFE24F0582CAF3E9&playnext=1&playnext_from=PL&index=17

<http://www.youtube.com/watch?v=4Ru1suvxv6o>

Basic word problem on rates

<http://www.youtube.com/watch?v=Nx4Xk5S4HQA>

http://www.youtube.com/watch?v=3x-22_fHXFs

Solving a proportion

http://www.youtube.com/watch?v=P_aQPxr2G_4

<http://www.youtube.com/watch?v=dLjun948t5Q>

Word problem on proportion

<http://www.youtube.com/watch?v=VikfwNpnZ10>

<http://www.youtube.com/watch?v=bQ3FgluChH8>

Word problem involving multiple rates

<http://www.youtube.com/watch?v=lh3w61ohwro>

<http://www.youtube.com/watch?v=rGkJ8hyHIJE&feature=related>

Direct and Inverse Variations

Word problem on inverse proportions

<http://www.youtube.com/watch?v=WaVvENU9pGk>

<http://www.youtube.com/watch?v=Tfnx0BiPUhw>

Similar polygons

<http://www.youtube.com/watch?v=9IUI3jtSEWU>

http://www.youtube.com/watch?v=_HGhidbXvgE

Word problem on direct variation

http://www.youtube.com/watch?v=wKXXrBV_RcA

<http://www.youtube.com/watch?v=o31s1daJaWw>

Word problem on inverse variation

http://www.youtube.com/watch?v=5_90IciEE5E

http://www.youtube.com/watch?v=_xdVqjat5R0