

## Problem Solving #2

1. Simplify.  $(8^{-2/3})^{-0.5}$

KEY: <http://youtu.be/KbvzQzrhLCo>

2. Simplify.  $\left(\frac{3+3}{3^3}\right)\left(\frac{3(3+3^1-3^0)3^2}{3-3^0}\right)$

KEY: <http://youtu.be/ibPPuBKoLW4>

3. Simplify.  $\frac{(\sqrt[3]{8})^2(15^{3/2})}{135^{1/2}}$

KEY: [http://youtu.be/CzH4\\_m65KhQ](http://youtu.be/CzH4_m65KhQ)

4. Simplify.  $\left(\sqrt[4]{\sqrt[3]{\sqrt{64}}}\right)^8$

KEY: <http://youtu.be/kpUf5HyavTc>

5. Simplify.  $\frac{17}{1+\frac{1}{1-\frac{1}{9}}}$

KEY: <http://youtu.be/wPOaHYiy-Rc>

6. Simplify.  $\frac{12}{3+\frac{5}{1+\frac{2}{1-\frac{1}{2}}}}$

KEY: <http://youtu.be/FG8BTIOPGao>

7. Simplify.  $\left(\frac{\frac{4}{x^2} - \frac{4}{y^2}}{\frac{20}{x} - \frac{20}{y}}\right)\left(\frac{30xy}{x+y}\right)$

KEY: <http://youtu.be/ZUx9bmdSJ9w>

8. Simplify.  $\frac{\frac{4x-\frac{1}{x}}{2}}{\frac{1-\frac{1}{2x+1}}{4x^2+4x+1}}$

KEY: <http://youtu.be/6W-qtjzuK00>

## Key

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6. <http://youtu.be/FG8BTIOPGao>
7. <http://youtu.be/ZUx9bmdSJ9w>
8. <http://youtu.be/6W-qtjzuK00>

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