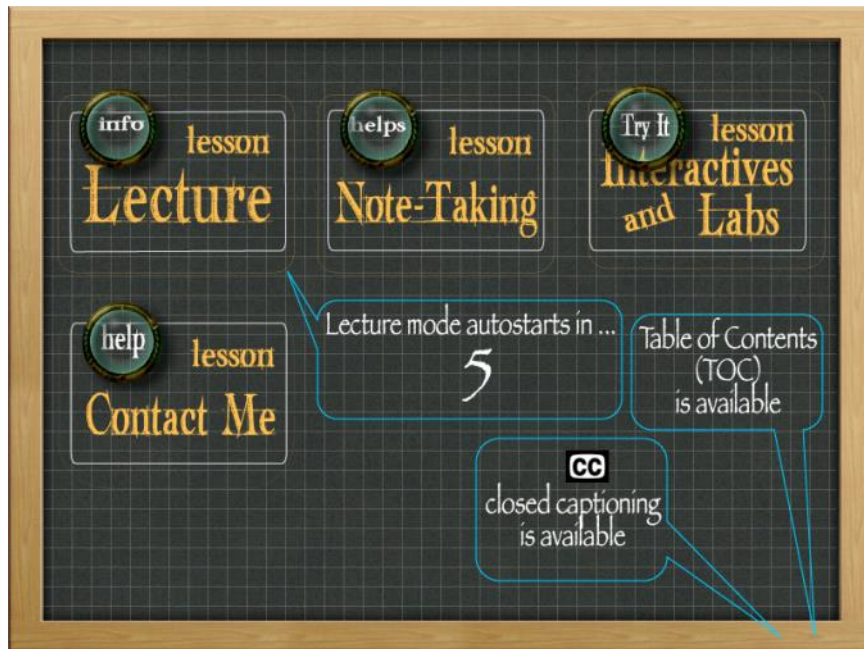


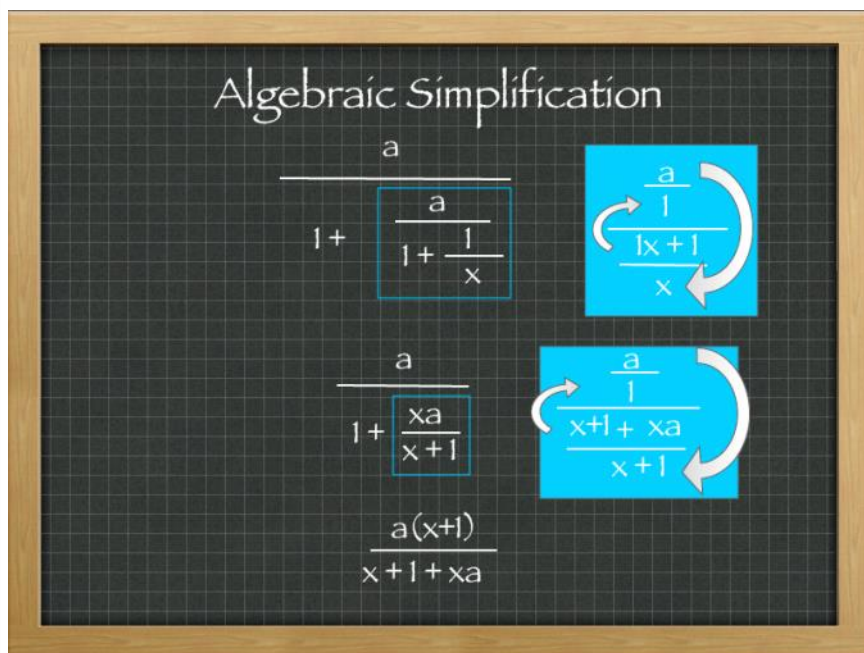
Algebraic Simplification

Thursday, January 19, 2012
5:23 PM

Slides



Notes



In this lesson, we are merely stepping these up to the next notch by adding yet one more layer. These are still solved the same as before though, bit by bit from the deepest layer of fractions up to the most surface layer.

The deepest layer here is the 1 plus 1 over x, so we simplify that first. We get the denominator's common denominator and add the fraction and get x plus 1 over x. Then we apply the inside outside trick to get 1 plus ax over x + 1.

Now we just repeat the same process for getting the same denominators to add the fractions and then do the inside outside trick all until we finally get to the final simplified form.

Try It:
Simplify

$$\frac{b}{a + \frac{c}{x + \frac{1}{y}}}$$

$$\frac{b}{a + \frac{\frac{c}{xy+1}}{y}}$$

$$\frac{cy}{xy+1}$$

$$\frac{b}{a + \frac{cy}{xy+1}}$$

$$\frac{b}{axy + a + cy}$$

$$\frac{b(xy+1)}{axy + a + cy}$$

Congratulations!
You have completed
this topic

Give us feedback about
this lesson if you wish...

