

**PERSONAL ERROR LOG FOR \_\_\_\_\_**

Common Error

Correct Method

What is the misconception?

What is the correct concept?

**EXAMPLE**

~~$$\frac{5x-x^2}{x^2} = 5x$$~~

~~$$\frac{5x-x^2}{x^2} = \frac{x(5-x)}{x \cdot x}$$~~  
 Since  $\frac{x}{x} = 1 \quad \forall x \neq 0$

That like terms found in both the numerator and denominator cancel.

We can cancel out **ONLY** fractional representations of 1. Factor first! Cancel only like factors!!

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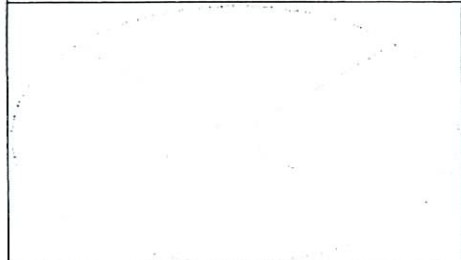
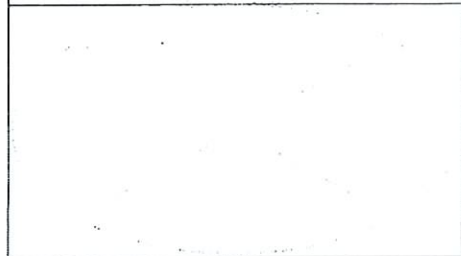

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<http://mathmistakes.info/index.html>

<http://www.pbs.org/wgbh/misunderstoodminds/mathdiffs.html>

[http://tutorial.math.lamar.edu/pdf/Common\\_Math\\_Errors.pdf](http://tutorial.math.lamar.edu/pdf/Common_Math_Errors.pdf)