Algebra 2 Bellwork Tuesday, January 19, 2016
1. Suppose that *T* varies directly with *S* and inversely with the square of *R*.
a. How is the value of *T* changed when the value of *S* is doubled?
b. How is the value of *T* changed when the value of *R* is doubled?
c. Simplify this rational expression. State restrictions on the variable.
a)
$$\frac{16}{27} \cdot \frac{45}{36}$$
 b) $\frac{18}{21} + \frac{24}{35}$ c) $\frac{4}{x+2}$
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1. Suppose that *T* varies directly with *S* and inversely with the square of *R*.
a) how is the value of *T* changed when the value of *S* is doubled?
if *G* is doubled Hee *T* is doubled?
if *G* is doubled Hee *T* is one-fourth as large.
2. Simplify this rational expression. State restrictions on the variable.

$$\frac{\frac{8x^5 - 72x^3}{10x^3 - 20x^2 - 150x}$$

$$\frac{x^5 - 72x^3}{10x^3 - 20x^3 - 150x}$$

$$\frac{x^5 - 72x^3 - 2x^3 - 2x$$