$\qquad$ Date: $\qquad$

Learning Target: I can divide rational expressions and explain how that is the same as dividing fractions.
Directions: Follow along with the video to divide and simplify the following Rational Expressions. Also, list all restrictions on the variable.


Divide and simplify the following Rational Expressions. Also, list all restrictions on the variable.

| $\frac{1 .}{6 v-6} \div \frac{v-4}{21 v^{3}-21 v^{2}}$ | $\frac{27 b+63}{b+4} \div \frac{21 b+49}{b+4}$ |
| :---: | :---: |
| $\frac{9 x^{2}}{9 x^{3}+27 x^{2}} \div \frac{6 x^{2}-6 x}{6 x^{2}+18 x}$ | $\frac{n^{2}+3 n-28}{n-4} \div \frac{n^{2}-2 n-63}{n^{2}-7 n-18}$ |
| $\frac{n^{2}-2 n-15}{n^{2}-11 n+30} \div \frac{10}{10 n-60}$ | $\frac{4 b+36}{b+2} \div \frac{b^{2}+6 b-27}{b^{2}-b-6}$ |

