

Learning Target: I can simplify rational expressions and explain how that is the same as reducing fractions.

Directions: Follow along with the video simplify the following Rational Expressions.

1. $\frac{7 - x}{5x - 35}$	2. $\frac{x^2 - 16x + 60}{-x^2 + 16x - 60}$
3. $\frac{9v + 54}{10v^2 + 60v}$	4. $\frac{10m - 100}{m^2 - m - 90}$

Simplifying Rational Expressions: **Your Turn**

Simplify the following rational expressions:

1. $\frac{k^2 - 15k + 56}{k - 8}$	2. $\frac{x^2 + 9x - 10}{x^2 + 14x + 40}$
3. $\frac{m^2 - 13m + 40}{9m^3 - 45m^2}$	4. $\frac{x^2 + 6x - 40}{6x^2 - 24x}$
5. $\frac{n^2 + 2n - 63}{n^2 - 10n + 21}$	6. $\frac{n^2 - 9n + 8}{n^2 - 6n + 5}$