11.4 Dividing Rational Expressions

For polynomials a, b, c $\frac{a}{b} \div \frac{c}{d} = \frac{a}{b} \cdot \frac{d}{c}$

for b=0, c=0

EX: Multiply expressions involving monomials

$$\frac{15y^2}{4x} \div \frac{5y}{8x^3}$$

Divide: $\dfrac{12a^2}{5b} \div \dfrac{25a}{6b^2}$

Ex: Divide: $\frac{4d-8}{2d-6} \div \frac{2d-4}{d-4}$

1) Factor the expressions, if possible
2) Simplify

EX:

Ex: Divide: $\frac{p^2-4}{5p} \div \frac{p-2}{p+q}$

1) Factor the expressions, if possible
2) Simplify

EX: