

# SIMPLIFYING RATIONAL EXPRESSIONS

Identify Rational Expression  $\rightarrow$   $\frac{6x^2 + 12x}{3x}$

$\frac{3x(2x+4)}{3x}$   $\leftarrow$  Factor Numerator/Denominator

Identify non-permissible values, then cancel out like terms  $\rightarrow x \neq 0$   $\frac{\cancel{3x}(2x+4)}{\cancel{3x}}$

$2x+4$   $\leftarrow$  Remaining terms is your answer