

# Download File PDF Simplifying Rational Expressions Examples And Solutions

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## SIMPLIFYING RATIONAL EXPRESSIONS

EXAMPLE

Simplify:  $\frac{7 + 20x - 3x^2}{2x^2 - 11x - 21}$

Solution:

$$\begin{aligned}\frac{7 + 20x - 3x^2}{2x^2 - 11x - 21} &= \frac{(7 - x)(1 + 3x)}{(x - 7)(2x + 3)} && \text{Factor.} \\ &= \frac{-(x - 7)(1 + 3x)}{(x - 7)(2x + 3)} && \text{Use } (7 - x) = -(x - 7). \\ &= \frac{-\cancel{(x - 7)}(1 + 3x)}{\cancel{(x - 7)}(2x + 3)} && x \neq 7.\end{aligned}$$

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