## 2.6 Multiply/Divide Rational Expressions

Mar 3

Simplify and state restrictions.

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$$\frac{3}{6x^{2}} \times \frac{15xy^{3}}{8xy^{4}}$$

$$= \frac{9}{4} \times \frac{1}{3} \times \frac{1}{3} \times \frac{1}{3}$$

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$$= \frac{9}{4} \times \frac{1}{3} \times$$

$$\frac{21x-3x^{2}}{16x+4x^{2}} \div \frac{14-9x+x^{2}}{12+7x+x^{2}}$$

$$= \frac{21\times-3x^{2}}{16\times+4x^{2}} \times \frac{12+7\times+x^{2}}{14-9\times+x^{2}}$$

$$= \frac{3(7+x)}{12(4+x)} \times \frac{(4+x)^{2}}{(4-9)^{2}+x^{2}}$$

$$= \frac{3(3+x)}{12(-2+x)} \times \frac{(4+x)^{2}}{(4-2+x)} \times \frac{(4+x)^{2}}{(4-2+x)^{2}} \times \frac{($$

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