


## 4.3 HW

- **3-90.** Multiply or divide the expressions below. Simplify your results. [Homework Help](#) 

a.  $\frac{x-7}{9(2x-1)} \div \frac{(x+5)(x-7)}{6x(x+5)}$

b.  $\frac{6x^2-x-1}{3x^2+25x+8} \cdot \frac{x^2+4x-32}{2x^2+7x-4}$

- **3-91.** For each rational expression below, state any values of the variables that would make the denominator zero. Then complete each part. [Homework Help](#) 

a. Use the fact that  $(x+4)^2 = (x+4)(x+4)$  to rewrite  $\frac{(x+4)^2}{(x+4)(x-2)}$ . Then look for “ones” and simplify.

b. Use the strategy you used in part (a) to simplify the expression  $\frac{8(x+2)^3(x-3)^3}{4(x+2)^2(x-3)^5}$ .

- **3-92.** Monica’s younger sister is just learning how to add fractions, and she is confused. She has to add  $\frac{1}{3} + \frac{2}{5}$ .
- Help Monica explain to her by writing a detailed step-by-step explanation of exactly what she needs to do. [Homework Help](#) 