

§ 2.7 Adding & Subtracting Rational Functions**Thinking & Inquiry**

A plane flies 197km from Ottawa to Montréal at a rate of $v+30$. On the return flight, the plane encountered wind resistance and travelled at a rate of $v-55$. What is the difference in flight times of the initial and return flights? Use $t = \frac{d}{r}$.

Application

Simplify and state any restrictions on the variable. Remember the order of operations.

$$\frac{7x}{5x^2-125} + \frac{4x}{3x+15} \div \frac{2x}{x^2+8x+15}$$