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Section 8-5 Adding and Subtracting Rationals

Students will be able to add and subtract rational expressions.

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Add:

Simplify:

To add rationals with a common denominator, you keep the denominator the same and add the numerators. Then simplify if possible.

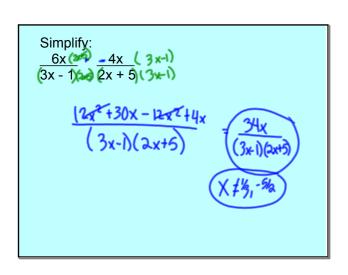
Different Denominators:
Add:

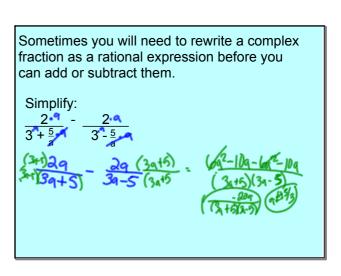
2 1 + 1/10 3/10

To add the following, you also have to find a common denominator, then add and simplify:

5 1/3x + 1/5x 3/10

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$$\frac{x-y}{x^1-y^1}$$

$$= \frac{x^1x-y^2x^4}{x^1+x^2}$$

$$\frac{x^2y-xy^2}{y-x} = \frac{xy(x-y)}{y-x} = \frac{xy}{-1} = -xy$$

Hwk: pg. 539 - 540 12 - 28 (4th), 29, 32 - 36 evens, 44

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