## Adding and Subtracting Rational Expressions-Part 1

When adding or subtracting fractions that have the same denominator:

1. Keep the denominator and collect like terms in the numerators.

2 . Try to reduce the expression by factoring.
Directions:
Perform the indicated operations and reduce to lowest terms.

1. $\frac{25}{3 x}-\frac{4}{3 x}$
2. $\frac{3 x+1}{5 x-2}+\frac{4 x-6}{5 x-2}$
3. $\frac{x^{2}}{2 x+3}-\frac{x+6}{2 x+3}$

OPPOSITE DENOMINATORS
4. $\frac{5}{x-2}-\frac{6}{2-x}$

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\text { 5. } \frac{x}{y-3}+\frac{5 x}{3-y}
$$

6. $\frac{3 x^{2}-7}{x-4}+\frac{x^{2}-2 x+12}{4-x}$
