3.6 Adding & Subtracting Unlike Fractions Adding & Subtracting Unlike Fractions

To find the sum or difference of two fractions with unlike denominators, rename the fractions with a common denominator. Then add or subtract & simplify.

Reminder: Use the least common denominator (LCD) method to rename the fractions with a common denominator.

3.6 Adding & Subtracting Unlike Fractions

Example: Solve each equation. Write the solution in simplest form.

$$\frac{\left(-\frac{1}{3}\right)_{8}^{8} + \frac{3}{8} \cdot 3}{-\frac{8}{24} + \frac{9}{24}} = \boxed{\frac{1}{24}}$$

3.6 Adding & Subtracting Unlike Fractions

Example: Solve each equation. Write the solution in simplest form.

$$\frac{9.3}{5.3} \left(-\frac{4.5}{3}\right)^{\frac{1}{5}}$$

$$\frac{27}{15} + \frac{-20}{15} = \boxed{\frac{7}{15}}$$

3.6 Adding & Subtracting Unlike Fractions

Example: Solve each equation. Write the solution in simplest form.

$$\frac{312}{-8} + \frac{9}{-8} = \frac{-8}{6} + \frac{9}{6} = \boxed{1}$$

3.6 Adding & Subtracting Unlike Fractions

Example: Solve each equation. Write the solution in simplest form.

$$\frac{72}{40} - \frac{25}{40} = \frac{47}{40} \text{ or } |_{40}^{\frac{7}{40}}$$

3.6 Adding & Subtracting Unlike Fractions

Example: Solve each equation. Write the solution in simplest form.