

Name:

Date:

Topic:

Class:

Main Ideas/Questions

Notes/Examples

ADDING & SUBTRACTING *Rational Expressions*

- ① Rewrite the problem using a common denominator.
- ② Combine the numerators and keep the common denominator.
- ③ Simplify the remaining expression.

LIKE BASE *Examples*

$$1. \frac{13a}{4a^2} + \frac{5a}{4a^2} = \frac{18a^1}{4a^2}$$

$$\boxed{\frac{9}{2a}}$$

$$2. \frac{9x+12}{16} - \frac{7x-2}{16}$$

$$\frac{9x+12-7x-2}{16} = \frac{2x+10}{16}$$

$$\frac{2(x+5)}{16} = \boxed{\frac{x+5}{8}}$$

$$3. \frac{y^2+8y}{y^2-9} + \frac{2y+21}{y^2-9}$$

$$\frac{y^2+10y+21}{y^2-9} = \frac{(y+7)(y+3)}{(y-3)(y+3)}$$

$$\boxed{\frac{y+7}{y-3}}$$

$$4. \frac{1}{12a-3} - \frac{16a^2}{12a-3}$$

$$\frac{1-16a^2}{12a-3} = \frac{(1+4a)(1-4a)}{3(4a-1)} = -1$$

$$= \frac{(1+4a)(-1)}{3} = \boxed{\frac{-1-4a}{3}}$$

$$5. \frac{n^2+3n-7}{n^2+n-6} - \frac{n+1}{n^2+n-6}$$

$$\frac{n^2+3n-7-n-1}{n^2+n-6} = \frac{n^2+2n-8}{n^2+n-6}$$

$$\frac{(n+4)(n-2)}{(n+3)(n-2)} = \boxed{\frac{n+4}{n+3}}$$

$$6. \frac{13k^2-9k}{6k^2-5k+1} + \frac{k^2+2k}{6k^2-5k+1}$$

$$\frac{14k^2-7k}{6k^2-5k+1} = \frac{7k(2k-1)}{(3k-1)(2k-1)}$$

$$\boxed{\frac{7k}{3k-1}}$$

UNLIKE BASE *Examples*

$$7. \frac{15}{2x} - \frac{16 \cdot 2}{3x \cdot 2}$$

$$\frac{45}{6x} - \frac{32}{6x} = \boxed{\frac{13}{6x}}$$

$$8. \frac{4a}{8a^2} - \frac{7 \cdot a}{8a \cdot a}$$

$$\frac{4a}{8a^2} - \frac{7a}{8a^2} = \frac{25a}{8a^2}$$

$$\boxed{\frac{25}{8a}}$$

Algebra 2 Pre Ap Spring Semester Review

Rachel Sandford



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