

Intermediate Algebra 1401

Adding or Subtracting Rational Expressions with Like Denominators

Simplify each expression.

1) $\frac{a+3a}{24a^2} + \frac{a+3a}{24a^2}$

2) $\frac{4a+3a}{12a} + \frac{a+3a}{12a}$

3) $\frac{a+3a}{12a^2a^2} + \frac{a+3a}{12a^2a^2}$

4) $\frac{4a+3a}{24a} + \frac{a+3a}{24a}$

5) $\frac{a+3}{3a+3a} + \frac{a+3}{3a+3a}$

6) $\frac{2a+3}{3a^2+a+3a} + \frac{a+3}{3a^2+a+3a}$

7) $\frac{4a+3}{12a^2+a} + \frac{a+3}{12a^2+a}$

8) $\frac{2a+4}{12a^2+12a} + \frac{a+3}{12a^2+12a}$

9) $\frac{3a+5}{2a^2+12a+12} + \frac{4a+2}{2a^2+12a+12}$

10) $\frac{4a+4}{3a^2+24a} + \frac{a+4}{3a^2+24a}$

11) $\frac{a+3}{3a^2+a+12} + \frac{4}{3a^2+a+12}$

12) $\frac{4a}{3a^2+12a} + \frac{3a+12}{3a^2+12a}$

13) $\frac{4a+4}{a^2+2+a+2} + \frac{3a+2}{a^2+2+a+2}$

14) $\frac{3a+4}{2a^2+3a+3} + \frac{2a+7}{2a^2+3a+3}$

15) $\frac{4a+3}{3a^2+24a+12} + \frac{4a+7}{3a^2+24a+12}$

16) $\frac{3a+4}{a^2+20a+24} + \frac{4a+20}{a^2+20a+24}$