

## Apply

Find the LCM for each pair of expressions.

16.  $a^2b, ab^3$

17.  $7xy, 21x^2y$

18.  $x - 4, x + 2$

19.  $2n - 5, n + 2$

20.  $x^2 + 5x - 14, (x - 2)^2$

21.  $p^2 - 5p - 6, p + 1$

Find each sum.

22.  $\frac{3}{x^2} + \frac{5}{x}$

23.  $\frac{2}{a^3} + \frac{7}{a^2}$

24.  $\frac{7}{6a^2} + \frac{5}{3a}$

25.  $\frac{3}{7m} + \frac{4}{5m^2}$

26.  $\frac{3}{x+5} + \frac{4}{x-4}$

27.  $\frac{n}{n+4} + \frac{3}{n-3}$

28.  $\frac{7a}{a+5} + \frac{a}{a-2}$

29.  $\frac{6x}{x-3} + \frac{x}{x+1}$

30.  $\frac{5}{3x-9} + \frac{3}{x-3}$

31.  $\frac{m}{3m+2} + \frac{2}{9m+6}$

32.  $\frac{-3}{5-a} + \frac{5}{a^2-25}$

33.  $\frac{18}{y^2-9} + \frac{-7}{3-y}$

34.  $\frac{x}{x^2+2x+1} + \frac{1}{x+1}$

35.  $\frac{2x+1}{(x-1)^2} + \frac{x-2}{x^2+3x-4}$

36.  $\frac{x^2}{4x^2-9} + \frac{x}{(2x+3)^2}$

37.  $\frac{a^2}{a^2-b^2} + \frac{a}{(a-b)^2}$

Find each difference.

$$38. \frac{7}{3x} - \frac{3}{6x^2}$$

$$40. \frac{11x}{3y^2} - \frac{7x}{6y}$$

$$42. \frac{x^2 - 1}{x + 1} - \frac{x^2 + 1}{x - 1}$$

$$44. \frac{k}{2k + 1} - \frac{2}{k + 2}$$

$$46. \frac{2x}{x^2 - 5x} - \frac{-3x}{x - 5}$$

$$48. \frac{n}{5 - n} - \frac{3}{n^2 - 25}$$

$$50. \frac{3x}{x^2 + 3x + 2} - \frac{3x - 6}{x^2 + 4x + 4}$$

$$52. \frac{x^2 + 4x - 5}{x^2 - 2x - 3} - \frac{2}{x + 1}$$

$$39. \frac{4}{15x^2} - \frac{5}{3x}$$

$$41. \frac{5a}{7x} - \frac{3a}{21x^2}$$

$$43. \frac{k}{k + 5} - \frac{3}{k - 3}$$

$$45. \frac{m - 1}{m + 1} - \frac{4}{2m + 5}$$

$$47. \frac{-3}{a - 6} - \frac{-6}{a^2 - 6a}$$

$$49. \frac{3a + 2}{6 - 3a} - \frac{a + 2}{a^2 - 4}$$

$$51. \frac{5a}{a^2 + 3a - 4} - \frac{a - 1}{a^2 - 1}$$

$$53. \frac{m - 4}{m^2 + 8m + 16} - \frac{m + 4}{m - 4}$$