Math III Adding and Subtracting Rational Expressions with Unlike Denominators

1.
$$\frac{5}{8} - \frac{3}{8x}$$

$$2. \qquad \frac{5}{4x} + \frac{3}{2x}$$

2.
$$\frac{5}{4x} + \frac{3}{2x}$$
 3. $\frac{5}{4x} + \frac{7}{12x}$

4.
$$\frac{2}{x-3} - \frac{1}{x+7}$$

5.
$$\frac{7}{x+2} - \frac{4}{3x+6}$$
 6. $\frac{3}{x+2} + \frac{4}{x-7}$

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

7.
$$\frac{5}{6x} - \frac{2}{3}$$

8.
$$\frac{2}{4x+12} + \frac{7}{x+3}$$

7.
$$\frac{5}{6x} - \frac{2}{3}$$
 8. $\frac{2}{4x+12} + \frac{7}{x+3}$ 9. $\frac{2x+3}{5x-30} - \frac{3x+4}{x-6}$

10.
$$\frac{1}{x+3} + \frac{4}{x^2+4x+3}$$

10.
$$\frac{1}{x+3} + \frac{4}{x^2+4x+3}$$
 11. $\frac{3}{x+3} + \frac{2x}{x^2+7x+12}$ 12. $\frac{2}{x-5} + \frac{3}{x-7}$

12.
$$\frac{2}{x-5} + \frac{3}{x-7}$$

13.
$$\frac{3}{x+5} + \frac{x}{x^2+7x+10}$$
 14. $\frac{3x}{x-6} + \frac{6x}{4x-24}$ 15. $\frac{7}{x+2} - \frac{4}{x-5}$

14.
$$\frac{3x}{x-6} + \frac{6x}{4x-24}$$

15.
$$\frac{7}{x+2} - \frac{4}{x-5}$$

16.
$$\frac{5}{x+10} + \frac{4x}{x^2+12x+20}$$
 17. $\frac{2}{5x-20} + \frac{7}{-x+4}$ 18. $\frac{2x}{x-11} + \frac{5}{-x+11}$

17.
$$\frac{2}{5x-20} + \frac{7}{-x+4}$$

18.
$$\frac{2x}{x-11} + \frac{5}{-x+11}$$

$$\frac{5}{4x} + \frac{3 \cdot 2}{2x \cdot 2}$$

$$\frac{5}{4x} + \frac{3}{2x} \cdot \frac{2}{2} \qquad \frac{3}{3} \cdot \frac{5}{4x} + \frac{7}{12x}$$

$$\frac{5+6}{4x} = \frac{11}{4x} \qquad \frac{15+7}{12x} = \frac{22}{12x} = \frac{11}{6}$$

$$\frac{15+7}{12X} \quad \frac{22}{12X}$$









