



7) Algebraic Fraction

1. Find the L.C.M of $5ab, 10a^2b$ and $2ab^2$

2. Find the L.C.M. of $3a + b$ and $2a - 4$

3. Find the L.C.M. of $(x - 3), (x^2 - 9)$ and $x^2 - x - 6$.

4. Find the L.C.M. of $x^2, 3(x - y)$ and $(y - x)$.

5. Find the L.C.M. of $(x - 2), x^2 + 5x + 6$ and $x^2 - 4$

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

7. Simplify. $\frac{5}{2x+1} - \frac{2x+4}{2x-1}$

8. Simplify. $\frac{3n}{m^2} - \frac{4}{5m}$

9. Simplify. $\frac{5}{a+3} - \frac{3}{a+2}$

10. Simplify. $\frac{5}{1-x} + \frac{3}{x-1}$

11. Simplify. $\frac{1}{x-3} + \frac{1}{x^2-x-6}$

12. Simplify. $\frac{2}{a-1} + \frac{3}{a+1} - \frac{1}{a^2-1}$

13. Multiply and represent the answer in the simplest form.

$$\frac{9}{x} \times \frac{2}{18x}$$

14. Multiply. $\frac{a^2}{3b+2} \times \frac{9b+6}{a}$

15. Multiply. $\frac{a-9}{a+2} \times \frac{a^2+3a+2}{(a+3)}$

16. Simplify. $\frac{a^2-81}{a+9} \times \frac{a^2+3a+2}{(a-9)}$

17. Simplify. $\frac{a^2-25}{a^2-9} \div \frac{a+5}{a+3}$

18. Simplify. $\frac{a(a+b)}{a^2-b^2} \div \frac{(a+b)^2}{a-b}$

19. Simplify. $\frac{1}{(a-3)} + \frac{1}{(a+3)}$

20. Simplify. $\frac{2}{x-y} + \frac{1}{y-x}$