

Solving Equations with Algebraic Fractions

Solve the following equations to find the value of the variable. Show all your working.

1. Solve: $\frac{x}{5} = 4$

2. Solve: $\frac{a}{3} + 2 = 7$

3. Solve: $\frac{p - 4}{3} = 5$

4. Solve: $\frac{2y + 1}{7} = 3$

5. Solve: $\frac{x}{3} = \frac{8}{x+2}$

6. Solve: $\frac{a+1}{3} = \frac{a+5}{4}$

7. Solve: $\frac{x}{2} + \frac{x}{5} = 14$

8. Solve: $\frac{p}{3} - \frac{p}{4} = 2$

9. Solve: $\frac{m-2}{3} + \frac{m}{4} = 5$

10. Solve: $\frac{2x-1}{2} - \frac{x-2}{3} = 4$

11. Solve: $\frac{3a - 1}{5} + 2 = \frac{a}{2}$

12. Solve: $x - \frac{x + 1}{3} = 5$