

Solving Rational Expressions Assignment

Solve the following rational expression by finding the value of the unknown variable.

1. $\frac{x}{4} = \frac{3}{8}$

2. $5 + \frac{y}{3} = y + 2$

3. $\frac{h+2}{5} - \frac{h-1}{9} = \frac{2}{3}$

4. $\frac{9}{25-y} = -\frac{1}{4}$

5. $5 - \frac{12}{a} = \frac{5}{3}$

6. $\frac{12}{y+5} + \frac{1}{2} = 2$

7. $\frac{4}{2x+3} + \frac{17}{5(2x+3)} = 3$

8. $\frac{6}{x-3} = 3$

9. $\frac{c+1}{2} = \frac{c+2}{3}$

10. $\frac{4q}{3} = \frac{2q-1}{5}$

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Determine whether the following value of x is a solution to the equation.

$$\frac{x}{3} - \frac{x}{5} = \frac{4}{3}$$

11. $x = 0$

12. $x = -1$

13. $x = \frac{1}{8}$

14. $x = 10$

Find solution for the following rational expressions.

15. $\frac{6}{a} + \frac{3}{4} = 1$

16. $\frac{5}{t} = 3 - \frac{1}{t}$

17. $\frac{3k}{5} + 2 = \frac{1}{4}$

18. $\frac{2r}{7} - 5 = r$

19. $\frac{6}{x-3} = 3$

20. $\frac{m-4}{4} = \frac{m+8}{16}$