

Problems 10.1.3/10.1.4 Review worksheet

Rewrite each equation in a simpler form and then solve the new equation.

1. $\frac{x}{3} + \frac{x}{2} = 5$

2. $3000x + 2000 = -1000$

3. $0.02y - 1.5 = 17$

4. $\frac{x}{2} + \frac{x}{3} - \frac{x}{4} = 12$

5. $50x^2 - 200 = 0$

6. $\frac{x}{9} + \frac{2x}{5} = 3$

7. $\frac{3x}{10} + \frac{x}{10} = \frac{15}{10}$

8. $\frac{3}{2x} + \frac{5}{x} = \frac{13}{6}$

9. $x^2 - 2.5x + 1 = 0$

10. $\frac{2}{3x} - \frac{1}{x} = \frac{1}{36}$

11. $0.002x = 5$

12. $10 + \frac{5}{x} + \frac{3}{3x} = 11$

13. $0.3(x + 7) = 0.2(x - 2)$

14. $x + \frac{x}{2} + \frac{3x}{5} = 21$

15. $32 \cdot 3x - 32 \cdot 1 = 32 \cdot 8$

16. $5 + \frac{2}{x} + \frac{5}{4x} = \frac{73}{12}$

17. $\frac{17}{2x+1} = \frac{17}{5}$

18. $2 + \frac{6}{x} + \frac{6}{3x} = 3$

19. $2.5x^2 + 3x + 0.5 = 0$

20. $\frac{x}{x-2} = \frac{7}{x-2}$