

Section 4.3 – Equations with Two Variables

Problem Set 3

Solve the following equations for y .

1. $\frac{x}{y} = 5$

2. $y + 5x + 3 = 4y + x$

3. $y + x = 5x + 4(y + 7)$

4. $x(5 + 9) = y + 5(x - 7)$

5. $y + 5(y + x) = x + 3$

6. $3xy = 9$

7. $5y + 3 = 7x$

8. $y + 6x = 7x(x + 3) = 2$

9. $\frac{5}{6}(x + 3) = -\frac{3}{5}(y + 3) + 5$

10. $y + 4x = 7 + 4x$

11. $\frac{6x}{5} + \frac{y}{5} = y - 6$

12. $-4(x - 6) = 5y + 4(x - 3)$

13. $3 + 2x = 4y + x$

14. $3x + \frac{y}{3} = 2 + \frac{y}{4}$

15. $3xy = x + 1$