

Section 6.1 – Solving by Graphing and Substitution

Problem Set 3

Find the coordinates of the points where the following pairs of lines intersect.

1. $4x + y = 4$ and $-x - y = 5$

2. $y = 4x + 8$ and $y = -4x + 2$

3. $x = y - 3$ and $y = 4x + 6$

4. $y = \frac{5}{6}x - 3$ and $y = \frac{x}{7} + 3$

5. $y = -x$ and $y = 5x + 18$

6. $5x + 3 = 4$ and $y = 6$

7. $\frac{x}{7} + \frac{5y}{10} = \frac{3}{6}$ and $\frac{x}{4} - \frac{4y}{9} = \frac{3}{8}$

8. $\frac{3x}{5} + \frac{2y}{3} = \frac{5}{3}$ and $\frac{x}{8} - \frac{4y}{6} = -\frac{10}{13}$

9. $7y + x = 3$ and $5y - x = 3$

10. $5x + 4y = 0$ and $-\frac{x}{10} + \frac{6y}{5} = 0$

11. $6x + y = 7$ and $5x + y = 8$

12. $x + 7y = 5$ and $-6x - 17y = -8$

13. $x + 7y = 8$ and $5x + 19y - 24 = 0$

14. $-x + y = 0$ and $2x + 7y = -9$