Section 6.2 – Solving by the Addition Method

Problem Set 1

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

1. $3y - x = 8$ and $-3y + 4x = -5$
2. $3x + y = 12$ and $3x - y = 12$
3. $x + y = -2$ and $-y + 3x = 2$
4. $6y + 3x = 2$ and $5y + 3x = 11$
5. $4y + 6x = 38$ and $6y + 6x = 42$
6. $y - x = 2$ and $-3y + 5x = -2$
7. $3x + 2y = 13$ and $4x - y = -1$
8. $-5x + 6y = 1$ and $-x + 5y = 4$
9. $x + 3y = 10$ and $4x - 3y = 10$
10. $8x + y = -10$ and $y = 6$
11. $3x + 5y = x - 18$ and $4x = 8x + 5y + 16$
12. $3y - 4x = 3$ and $-4x + 4y = 5$
13. $6y + 3x = x$ and $-4y + x + 2 = 5y - 12$
14. $3x + 4y = -5$ and $4x - 5y = 14$
15. $3x - 6y = 1$ and $-4x + 4y = -2$
16. $8x + 3y = 11$ and $4x - 6y = -2$

