

## Homework: Systems of Linear Equations in Two Variables - Key

---

In Problems 1-7, solve each system by the substitution method.

1. $(2, 10)$	2. $(1, 2)$
3. $(1, 9)$	4. $(-3, 4)$
5. $\left(\frac{51}{23}, \frac{2}{23}\right)$	6. $\left(\frac{7}{22}, \frac{-5}{22}\right)$
7. $\left(\frac{-20}{3}, 14\right)$	

In Problems 8-13, solve each system by the addition method

8. $(3, 1)$	9. $(5, 2)$
10. $(-2, -1)$	11. $(1, 3)$
12. $\left(\frac{-1}{37}, \frac{-11}{37}\right)$	13. $\left(\frac{-43}{25}, \frac{1}{25}\right)$

In Problems 14-19, solve by the method of your choice. Identify systems with no solution and ones with infinite solutions

14. $(1, 2)$	15. $(-1, 6)$
-----------------	------------------

Homework: Systems of Linear Equations in Two Variables - Key

---

16. $\left(\frac{14}{29}, \frac{11}{58}\right)$	17. $\left(\frac{5}{26}, \frac{19}{13}\right)$
18. infinite solutions	19. no solution