Solve each system of equations using the substitution method. If the system has no solution, write *no solution*. If a system has infinitely many solutions, write *infinitely many solutions*.

2. $x = 4y + 2$

   $2x - 3y = 9$

3. $y = 2x$

   $3x + y = 12$

4. $3x + y = 5$

   $4x + 2y = 20$

5. $4x + 5 = y$

   $4x - y = 8$

6. $y = 3x - 7 + x$

   $7 = 4x - y$