

Solve each system by substitution.

1) $y = 2x + 7$
 $y = -6x + 7$

2) $y = 19x - 28$
 $y = -7x + 24$

3) $2x - 3y = -10$
 $y = 2x + 10$

4) $2x + 6y = 46$
 $y = 3x + 51$

Solve each system by elimination.

5) $2x + 3y = 2$
 $9x - 3y = 9$

6) $-3x - 5y = 24$
 $3x + y = -12$

7) $3x + 6y = -18$
 $3x + 6y = -18$

8) $-9x - 4y = 17$
 $18x + 9y = -27$

9) $-7x - 8y = -30$
 $-14x + y = -26$

10) $13x + 2y = 123$
 $4x + y = 44$

11) $32x + 36y = -4$
 $16x + 43y = -27$

12) $-9x - 9y = -8$
 $24x + 24y = 0$

- 13) Arjun and Jenny are selling flower bulbs for a school fundraiser. Customers can buy bags of windflower bulbs and packages of crocus bulbs. Arjun sold 9 bags of windflower bulbs and 14 packages of crocus bulbs for a total of \$184. Jenny sold 2 bags of windflower bulbs and 14 packages of crocus bulbs for a total of \$128. Find the cost each of one bag of windflower bulbs and one package of crocus bulbs.
- 14) Julia and Darryl are selling cheesecakes for a school fundraiser. Customers can buy pecan cheesecakes and apple cheesecakes. Julia sold 14 pecan cheesecakes and 10 apple cheesecakes for a total of \$246. Darryl sold 11 pecan cheesecakes and 2 apple cheesecakes for a total of \$123. What is the cost each of one pecan cheesecake and one apple cheesecake?
- 15) Joe and Jack each improved their yards by planting daylilies and shrubs. They bought their supplies from the same store. Joe spent \$138 on 14 daylilies and 2 shrubs. Jack spent \$69 on 3 daylilies and 7 shrubs. What is the cost of one daylily and the cost of one shrub?
- 16) Stephanie and Sumalee each improved their yards by planting rose bushes and shrubs. They bought their supplies from the same store. Stephanie spent \$99.57 on 12 rose bushes and 11 shrubs. Sumalee spent \$62.31 on 7 rose bushes and 8 shrubs. Find the cost of one rose bush and the cost of one shrub.