

key

Linear Equations and Inequalities



Systems of Equations: Elimination Method

Application:

Bob purchased 4 shirts and 6 pairs of pants for \$172. Chris bought 8 shirts and 7 pairs of pants for \$234. How much did each shirt and each pair of pants cost?

22 pants
10 shirts

1. $2x + y = -6$
 $3x + y = -10$

$(-4, 2)$

2. $8x - y = 20$
 $-5x + y = -8$

$(4, 12)$

3. $2x + y = 0$
 $2x - 3y = -8$

$(-1, 2)$

4. $5x + 3y = 10$
 $2x - 3y = 4$

$(2, 0)$

5. $9x - 3y = 9$
 $x + 3y = 11$

$(2, 3)$

6. $x + 3y = 9$
 $x - 2y = -6$

$(0, 3)$

7. $2x + y = 4$
 $2x + 2y = 2$

$(3, -2)$

8. $7y + 15 = 3x$
 $15 = 3x + 2y$

$(5, 0)$

9. $25x = 91 - 16y$
 $16y = 64 - 16x$

$(3, 1)$

10. $4x - 2y = -2$
 $4x + 3y = -12$

$(-1.5, -2)$

11. $2x + y = -7$
 $y = 3x + 3$

$(-2, -3)$

12. $3x = -2y + 10$
 $x = 2y + 6$

$(4, -1)$

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

$(6, -1)$

14. $x + 5y + 11 = 0$
 $3x - 5y - 7 = 0$

$(-1, -2)$