

Solving Linear Simultaneous Equations by Substitution

(a) Solve $4x - y = 17$
 $x = y + 2$

(a) $x = 5, y = 3$

(b) Solve $2x + y = 6$
 $y = 4x + 3$

(b) $x = \frac{1}{2}, y = 5$

(c) Solve $3x + 7y = 13$
 $y = x - 11$

(c) $x = 9, y = -2$

(a) Solve $4x - 3y = 7$
 $3y = x + 5$

(a) $x = 4, y = 3$

(b) Solve $y + 1 = 3x$
 $2x - 3y = 24$

(b) $x = -3, y = -10$

(c) Solve $3x + 5y = 29$
 $y + 11 = 5x$

(c) $x = 3, y = 4$

(a) Solve $4x + 6y = 74$
 $11 - y = 2x$

(a) $x = -1, y = 13$

(b) Solve $y - 8 = 6x$
 $4x + 5y + 28 = 0$

(b) $x = -2, y = -4$

(c) Solve $8 - x = 3y$
 $10 - 3x = 5y$

(c) ~~$x = 3.5$~~ $x = -2.5$
 $y = 3.5$

(a) Given that $7x = 2y + 34$ and $3x + 5y + 3 = 0$, find the value of $x^2 + y^2$

(a) $x = 4, y = -3$
 $x^2 + y^2 = 25$

(b) Solve $\frac{3x+1}{2} = y$
 $5y - 4x = 13$

(b) $x = 3, y = 5$

(c) Find the coordinates of intersection of the straight lines with equations

$y = 3x - 2$
 $x + 3y = 19$

(c) $x = 2.5, y = 5.5$
 $(2.5, 5.5)$