

1) Explain the meaning of *simultaneous*

2) Solve each of the pairs of simultaneous equations by **elimination**

a) $3x + y = 4$
 $2x - y = 6$

$x = \dots\dots\dots$ $y = \dots\dots\dots$

b) $3x + 2y = 17$
 $3y - 3x = 3$

$x = \dots\dots\dots$ $y = \dots\dots\dots$

c) $2x + 2y = 12$
 $2x - 4y = 6$

$x = \dots\dots\dots$ $y = \dots\dots\dots$

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

$x = \dots\dots\dots$ $y = \dots\dots\dots$

e) $2x - 3y = 5$
 $7x - y = -11$

$x = \dots\dots\dots$ $y = \dots\dots\dots$

f) $3x + 4y = -7$
 $2x + 6y = -3$

$x = \dots\dots\dots$ $y = \dots\dots\dots$

3) Solve each pair of simultaneous equations by **substitution**

a) $y = 2x + 3$
 $y = 3x - 1$

$x = \dots\dots\dots$ $y = \dots\dots\dots$

b) $y + 2x = 4$
 $y = 5x - 10$

$x = \dots\dots\dots$ $y = \dots\dots\dots$

c) $2x - y = 4$
 $y = 5 - x$

$x = \dots\dots\dots$ $y = \dots\dots\dots$

d) $2x + 2y = 2$
 $y + 3x = 11$

$x = \dots\dots\dots$ $y = \dots\dots\dots$

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

$x = \dots\dots\dots$ $y = \dots\dots\dots$

f) $2y - 3x = 5$
 $4y + 6x = 14$

$x = \dots\dots\dots$ $y = \dots\dots\dots$

