

Section 1: Simultaneous equations

Exercise level 1

1. Solve the following simultaneous equations:

(i) $2x + 5y = 11$
 $2x - y = 5$

(ii) $x + 2y = 6$
 $4x + 3y = 4$

(iii) $3a - 2b = 4$
 $5a + 4b = 3$

(iv) $2p - 5q = 5$
 $3p - 2q = -9$

(v) $5x + 3y = 9$
 $y = 3x - 4$

(vi) $3a + 2b = 1$
 $9a - 4b = 4$

2. Solve the following simultaneous equations:

(i) $x - y = -1$
 $3x + 2y = 7$

(ii) $2x + y = 0$
 $x - 3y = 7$

(iii) $y - 5x = -8$
 $x + 3y = 0$

(iv) $x = 2y - 1$
 $-x + 3y = -1$

(v) $2p - 4q = 14$
 $-p + 3q = -5$

(vi) $3u - 2v = -26$
 $-u + 6v = 46$