

# Simultaneous Equations

Increasingly  
Difficult  
Exercises

- |    |                               |    |                                  |    |                                  |
|----|-------------------------------|----|----------------------------------|----|----------------------------------|
| a) | $a + 2b = 9$<br>$a + 3b = 11$ | b) | $2x + 5y = 46$<br>$x + 3y = 27$  | c) | $3m + 2n = 14$<br>$4m + 5n = 14$ |
| d) | $p + r = 15$<br>$p - r = 9$   | e) | $3a + 2b = 33$<br>$5a - 4b = 44$ | f) | $6x - 5y = 20$<br>$4x + 3y = 7$  |
| g) | $2m + 5n = 57$<br>$n = m + 2$ | h) | $4p + 3r = 5$<br>$r = 2p - 5$    | i) | $a - 5b = 6$<br>$a = 3b + 2$     |
| j) | $x^2 + y^2 = 45$<br>$x = 2y$  | k) | $x^2 - y^2 = -5$<br>$y = x - 5$  | l) | $2x^2 + y^2 = 57$<br>$x + y = 1$ |

# Simultaneous Equations

Increasingly  
Difficult  
Exercises

- |    |                               |    |                                  |    |                                  |
|----|-------------------------------|----|----------------------------------|----|----------------------------------|
| a) | $a + 2b = 9$<br>$a + 3b = 11$ | b) | $2x + 5y = 46$<br>$x + 3y = 27$  | c) | $3m + 2n = 14$<br>$4m + 5n = 14$ |
| d) | $p + r = 15$<br>$p - r = 9$   | e) | $3a + 2b = 33$<br>$5a - 4b = 44$ | f) | $6x - 5y = 20$<br>$4x + 3y = 7$  |
| g) | $2m + 5n = 57$<br>$n = m + 2$ | h) | $4p + 3r = 5$<br>$r = 2p - 5$    | i) | $a - 5b = 6$<br>$a = 3b + 2$     |
| j) | $x^2 + y^2 = 45$<br>$x = 2y$  | k) | $x^2 - y^2 = -5$<br>$y = x - 5$  | l) | $2x^2 + y^2 = 57$<br>$x + y = 1$ |