

# A025 Expanding and factorising 1

① a)  $-3e + 5f$   
 b)  $6y^2 - 14y$

② i)  $x+8$   
 ii)  $y^2 - 2y - 35$

③ a)  $10e^5 f^2$   
 b)  $(x-6)(x+1)$

④ a)  $g(g+4)$   
 b)  $(e-6)(e+4)$

⑤ a)  $e^4$   
 b)  $y^{16}$   
 c)  $x^2 + 7x - 18$   
 d)  $4cp^2(4c^3 + 5p)$

⑥ a) i)  $5abc$   
 ii)  $3q^5$   
 iii)  $5m - 3n$   
 b)  $t(t-10)$

⑦ a)  $6a - 9b$   
 b)  $d(7g - 9e)$   
 c)  $x^2 + 7x + 10$

⑧ a)  $n(n+8)$   
 b)  $2x - 27$   
 c)  $y^2 + 9y + 14$

⑨ a)  $d(7g - 9e)$   
 b)  $x^2 + 7x + 10$

⑩ a)  $24 p^5 q^6$   
 b)  $125 x^6 y^{12}$   
 c)  $(3a + b)(3a - b)$

⑪ a)  $5(2a+5)$   
 b)  $w(7w-4)$   
 c)  $p^3 - 5p^2$   
 d)  $x^2 + 4x - 21$   
 e)  $-6$

⑫ a)  $10x^2 - 11x - 6$   
 b)  $(x+1)(x+3)$

⑬ a)  $13y - 1$   
 b)  $35u^3 w^7$

⑭ a)  $3(f+3)$   
 b)  $(x-5)(x+3)$

⑮ a)  $(x+13)(x-13)$   
 b)  $6x^2 + x - 2$

Algebra by ...

Handwritten notes and solutions on the right side of the page, including various mathematical expressions and diagrams. Some notes include:

- ①  $24 p^5 q^6$
- ②  $125 x^6 y^{12}$
- ③  $(3a + b)(3a - b)$
- ④  $24 p^5 q^6$
- ⑤  $125 x^6 y^{12}$
- ⑥  $(3a + b)(3a - b)$
- ⑦  $24 p^5 q^6$
- ⑧  $125 x^6 y^{12}$
- ⑨  $(3a + b)(3a - b)$
- ⑩  $24 p^5 q^6$
- ⑪  $125 x^6 y^{12}$
- ⑫  $(3a + b)(3a - b)$
- ⑬  $24 p^5 q^6$
- ⑭  $125 x^6 y^{12}$
- ⑮  $(3a + b)(3a - b)$