

BASIC POLYNOMIALS

Write the expansion of the following.

1 $(x + 5)(x + 1)$

2 $(x - 2)(x - 3)$

3 $(a - 3)(a + 4)$

4 $(x - 2)^2$

5 $(y + 7)^2$

6 $(2x + 3)(x + 5)$

7 $(3x - 4)(x - 2)$

8 $(3m + 7)(2m - 1)$

9 $(3x + 2)(3x + 2)$

10 $(2p - 9)(2p + 9)$

11 $(3x + 2)(2x + 3)$

12 $(4p - 5)^2$

19 $(x^2 + 5)(x^2 - 2x - 3)$

20 $(x - 2)(x + 2)(x + 2)$

21 $(x^2 - y^2)^3$

22 The correct expansion of $(\sqrt{x} + \sqrt{y})^2$ is:

A $x^2 + 2xy + y^2$

B $x + y + 2xy$

C $x + y + 2\sqrt{xy}$

D $x^2 + y^2 + 2\sqrt{xy}$

23 Indicate whether each answer is a correct or incorrect factorisation of $x^2 - 4xy + 4y^2$.

(a) $(x + 2y)^2$

(b) $(2y - x)^2$

(c) $(2x - y)^2$

(d) $(x - 2y)^2$