

Name:

Exam Style Questions

Factorising: Brackets



Equipment needed: Pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 120a



Answers and Video Solutions



1. Factorise $(x + 1)^2 + 3(x + 1)$



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(2)

2. Factorise $(x + 6)^2 + 2(x + 6)$



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(2)

3. Factorise $(y - 3)^2 + 8(y - 3)$



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(2)

4. Factorise $(w - 7)^2 - 8(w - 7)$



.....
(2)

5. Factorise $5(x + 3) - (x + 3)^2$



.....
(2)

6. Factorise $(x - y)^2 + 5(x - y)$



.....
(2)

7. Factorise $(x + y)^2 - 4(x + y)$



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(2)

8. Factorise fully $(x + 2)^4 + (x + 2)^3$



Do not attempt to expand brackets.

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(2)

9. Factorise fully $(y + 3)^6 - (y + 3)^5$



Do not attempt to expand brackets.

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(2)

10. Factorise fully $10(x + 1)^3 + 5(x + 1)^2$



Do not attempt to expand brackets.

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(3)

11. (a) Factorise $x^2 + 5x + 6$



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(2)

(b) Hence factorise $(y + 1)^2 + 5(y + 1) + 6$

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(2)

12. (a) Factorise $x^2 - 7x + 12$



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(2)

(b) Hence factorise $(y - 2)^2 - 7(y - 2) + 12$

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(2)

13. (a) Factorise $x^2 - 6x - 27$



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(2)

(b) Hence factorise $(y - 4)^2 - 6(y - 4) - 27$

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(2)

14. Factorise fully $(x + 8)^7 + (x + 8)^6(3x - 1)$



Do not attempt to expand brackets.

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(3)

15. (a) Factorise $3x^2 + 4x + 1$



.....
(2)

(b) Hence factorise $3(y - 5)^2 + 4(y - 5) + 1$

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(3)

16. Factorise $6(2x - 3)^2 - 7(2x - 3) - 10$



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(4)