

Simplify indices

1. Simplify $x^6 \times x^4$

(1 mark)

2. Simplify $x^2 \times x^8$

(1 mark)

3. Simplify $x^{11} \times x$

(1 mark)

4. Simplify $y^8 \times y^{-2}$

(1 mark)

5. Simplify $x^{-5} \times x^{-3}$

(1 mark)

6. Simplify $x^{-4} \times x^8$

(1 mark)

Simplify indices

7. Simplify $x^9 \div x^8$

(1 mark)

8. Simplify $x^5 \div x^8$

(1 mark)

9. Simplify $x^{13} \div x^3$

(1 mark)

10. Simplify $x^7 \div x^{-5}$

(1 mark)

11. Simplify $x^{-7} \div x^{-6}$

(1 mark)

12. Simplify $x^{-4} \div x^9$

(1 mark)

Simplify indices

13. Simplify $(x^6)^3$

(1 mark)

14. Simplify $(x^7)^4$

(1 mark)

15. Simplify $(x^{11})^3$

(1 mark)

16. Simplify $(x^8)^{-3}$

(1 mark)

17. Simplify $(x^{-5})^{-4}$

(1 mark)

18. Simplify $(x^{-4})^5$

(1 mark)

Simplify indices

19. Simplify $2x^7 \times 3x^4$

(2 marks)

20. Simplify $5x^2 \times 2x^3$

(2 marks)

21. Simplify $15x^{12} \div 3x^4$

(2 marks)

22. Simplify $20x^8 \div 4x^{-2}$

(2 marks)

23. Simplify $(2x^5)^3$

(2 marks)

24. Simplify $(3x^{-4})^2$

(2 marks)