(x 1/2 +

A Level Introduction

1. Write in index form $2^8 \times 8^2$

2. Write in index form $(4^4 \times 16)^3$

3. Write in index form $\frac{25^2}{5^3}$ \times 5^{-2}



A Level Introduction

4. Simplify
$$8^0 \div \sqrt[3]{8}$$
 (2 marks)
$$1 \div 2$$

$$2$$

5. Write in index form $(16^6 \div 4^5) \times 4^{-3}$ (3 marks) $(4^4 \div 4^7) \times 4^{-3}$ $(4^7 \times 4^{-3}) \times 4^{-3}$

6. Write in index form $(4 \times 64^2)^2 \div 4^5$ (3 marks) $(4 \times (4^3)^2)^2 \div 4^5$ $(4 \times (4^3)^2)^2 \div 4^5$ $(4 \times (4^3)^2)^2 \div 4^5$



A Level Introduction

7. Write in index form
$$\sqrt[8]{6} \div \sqrt[3]{6}$$

8. Write in index form
$$\frac{1}{3^3} \times \frac{1}{\sqrt{3}}$$

9. Write the following as a whole number
$$36^{\frac{3}{2}}$$



A Level Introduction

10. Write the following as a fraction $8^{-\frac{4}{3}}$

(2 marks)

11. Write the following as a mixed number $16^{\frac{3}{2}} \div 125^{\frac{2}{3}}$

12. Write the following as a fraction $49^{\frac{1}{2}} \times 343^{-\frac{2}{3}}$

(4 marks)