

15 Without using a calculator and showing all your working, express

$$\frac{4 - \sqrt{12}}{4 + \sqrt{12}}$$

in the form $a - \sqrt{b}$ where a and b are integers.

(Total for Question 15 is 3 marks)

16 (a) Simplify fully $(5a^2b^3)^2$

(2)

(b) Simplify fully $\frac{(9x^4y^2)^{\frac{1}{2}}}{3x^2y^{-4}}$

(2)

(Total for Question 16 is 4 marks)

