

MEMORANDUM

QUESTION 1

(18 MARKS)

1.1 Simplify:

$$\begin{aligned} \frac{a^2b^3}{a^{-2}b^4} \times \sqrt[3]{a^{12}b^{36}} & \quad (4) \\ = \frac{a^7}{b} \checkmark \times \sqrt[3]{a^{12}b^{36}} \checkmark \\ = \frac{a^7}{b} \times a^4b^6 \checkmark \\ = a^{10}b^5 \checkmark \end{aligned}$$

1.2 Fully factorise the following expressions:

$$\begin{aligned} 1.2.1. \quad 2x^2a - 8a - 8x^2 + 32 & \quad (3) \\ = 2x^2a - 8x^2 - 8a + 32 \\ = 2x^2(a - 4) \checkmark - 8(a - 4) \checkmark \\ = (2x^2 - 8)(a - 4) \checkmark \end{aligned}$$

$$\begin{aligned} 1.2.2. \quad -21yz + 28xz + 15y^2 - 20xy & \quad (3) \\ = 7z(4x - 3y) \checkmark - 5y(4x - 3y) \checkmark \\ = (4x - 3y)(7z - 5y) \checkmark \end{aligned}$$

1.3 Simplify:

$$\begin{aligned} 1.3.1. \quad \frac{a^2-2a-8}{2a+6} \times \frac{4a+12}{a^2-4} & \quad (4) \\ = \frac{(a-4)(a+2)}{2(a+3)} \checkmark \times \frac{2^2(a+3)}{(a-2)(a+2)} \checkmark \\ = \frac{a-4}{1} \times \frac{2}{a-2} \checkmark \\ = \frac{2(a-4)}{a-2} \checkmark \end{aligned}$$

$$\begin{aligned} 1.3.2. \quad 1 - \frac{3-a}{3a} & \quad (4) \\ = 1 \times \frac{3a}{3a} - \frac{3-a}{3a} \times \frac{1}{1} \\ = \frac{3a}{3a} \checkmark - \frac{3-a}{3a} \checkmark \\ = \frac{3a-3+a}{3a} \checkmark \\ = \frac{4a-3}{3a} \checkmark \end{aligned}$$

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Guillaume Favre



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