

Task 1: Knowledge/Understanding questions

1. Expand and simplify the following powers. Give all of the answers in terms of positive exponents.

$$a) (3a^2b^2)^3 - 3a^2b^2(3a^2b^2)^2$$

$$= (3a^2b^2)^3 - 3a^2b^2(3)^2$$

$$= 27a^6b^6 - 27b^4$$

$$= 27a^6b^2$$

$$b) \left(\frac{2}{3}\right)^{10} 3a^2$$

$$= \left(\frac{2^{10}a^2}{3^{10}a^2}\right)$$

$$= \frac{2^{10}a^2}{3^{10}a^2}$$

$$c) (-45)(1) + 64^{-1} + (2^2)(1)$$

$$= (-45)(1) + 64^{-1} = 64$$

$$= \frac{-45}{1} + \frac{1}{4} + \frac{64}{1}$$

$$= \frac{-180}{4} + \frac{1}{4} + \frac{256}{4}$$

$$= \frac{77}{4}$$

$$= 19.25$$

$$d) 3(2a-1)(2a+1)$$

$$= 3(2a-1)(2a+1) \text{ add the exponents}$$

$$= 3(12a^2 + 12a - 2a - 1)$$

$$= 3(12a^2 + 10a - 1)$$

The exponent on 3 should be 10+1

$$e) \frac{2^{2a} \sqrt{x-4}}{3^{2a} \sqrt{x+4}}$$

$$= 2^{-3a(x-2)(x+7)(x-4)}$$

$$= 2^{4a^2 - 4b}$$

2. Evaluate $\log_5 625$ using the following methods. Give

- a. by switching from logarithmic to exponential form

$$x = \log_5 625$$

$$5^x = 625$$

$$x = 4$$

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Hussin A.Rothana



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