

Task 1: Knowledge/Understanding questions

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

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

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

$$= 9a^4b^6 - 9a^2b^3$$

$$= 9a^2b^3$$

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

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

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

$$c) (-45)(1) + 64^{\frac{1}{2}} + (2^3)(1)$$

$$= (-45)(1) + 64^{\frac{1}{2}} + 8$$

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

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

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

$$= 19.25$$

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

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

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

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

The exponent on x should be 1x+1

$$e) \frac{2^{x^2} \sqrt{x-4}}{3^{2x} \sqrt{x+6}}$$

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

$$= 2^{4x^2 - 4x}$$

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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