

MCR3U Unit 4 Test Review: Exponential Functions

Part A: Knowledge & Understanding

1. Write as a single, positive power and evaluate. Express your answer in rational form.

a) $8^{-3} \times 8$

b) $(10^{-2})^3$

c) $5^{-7} \times 5^7$

d) $4^5 \div 4^3$

e) $\frac{(-3)^{13}}{(-3)^5 \times (-3)^4}$

2. Simplify. Use positive exponents in your final answers.

a) $(-3x^2y^2)^3(-3x^{-3}y)^2$

b) $\frac{(5a^{-1}b^2)^{-2}}{125a^5b^{-3}}$

c) $\sqrt[5]{\frac{1024(x^{-1})^{10}}{(2x^{-3})^{-5}}}$

3. What type of relation is represented by the table below? Show any necessary calculations and explain your reasoning.

x	y
1	2
2	4
3	8
4	16
5	32
6	64

4. Given the $f(x) = 0.5(2^{x-4})$,
- State the base function.
 - Describe the transformations that have been applied to the base function in order to obtain $f(x)$.
 - State the domain, range, y-intercept, and equation of the asymptote for $f(x)$.

Part B: Application

1. Simplify, then evaluate each expression for $x = 2$ and $y = 3$. Leave your answers in rational form.

a) $\frac{(81x^4y^6)^{1/2}}{3(x^5y^3)^{1/3}}$

b) $\frac{\sqrt{49x^{-10}}}{\sqrt[3]{27x^{-1}}}$

Mcr3u Exponential Functions Test Answers

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