

# 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

**DJ Losen**



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