

# UNIT #4 – EXPONENTIAL AND LOGARITHMIC FUNCTIONS

## COMMON CORE ALGEBRA II

### Part I Questions

1. The expression  $\left(\frac{1}{x^3}\right)^2$  is equivalent to

(1)  $x^{-1}$

(3)  $x^{-3}$

(2)  $x^{3/2}$

(4)  $x^{-6}$

$$= \frac{1^2}{(x^3)^2} = \frac{1}{x^{2 \cdot 3}} = \frac{1}{x^6} = x^{-6}$$

(4)

2. The exponential function  $y = 16(2^x)$  could be rewritten as

(1)  $y = 32^x$

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

(2)  $y = 2^{5x}$

(4)  $y = 2^{x^2}$

$$y = 16(2^x) = 2^4 \cdot 2^x = 2^{4+x} = 2^{x+4}$$

(3)

3. The expression  $a^{\frac{5}{2}}$  is equivalent to which of the following as long as  $a > 0$ ?

(1)  $\sqrt{a^5}$

(3)  $\sqrt[5]{a^2}$

(2)  $\sqrt{5a}$

(4)  $\frac{5a}{2}$

$$a^{\frac{5}{2}} = a^{2\frac{1}{2}} = (a^2)^{\frac{1}{2}} = \sqrt{a^2}$$

(1)

4. Which of the following would give the same result as  $\left(\sqrt{\sqrt[3]{2}}\right)^6$ ?

(1)  $\sqrt[3]{8}$

(3)  $\sqrt{2}$

(2)  $\sqrt[3]{8}$

(4)  $\sqrt[3]{4}$

$$\left((2^{\frac{1}{3}})^{\frac{1}{2}}\right)^6 = 2^{\frac{1}{3} \cdot \frac{1}{2} \cdot 6} = 2^{\frac{1}{2}} = 2^{\frac{1}{2}} = \sqrt[2]{2^1} = \sqrt[2]{2} = \sqrt[3]{4}$$

(4)

5. For the function  $f(x) = 5(2)^x + 7$ , which of the following represents its y-intercept?

(1) 7

(3) 12

(2) 5

(4) 17

$$\begin{aligned} f(0) &= 5(2)^0 + 7 \\ &= 5(1) + 7 \\ &= 5 + 7 \\ &= 12 \end{aligned}$$

(3)



# Logarithmic And Exponential Applications Answer Key

**Hussin A.Rothana**



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