

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^{-2}

(2) $x^{\frac{2}{3}}$

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

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

$$\left((2^{\frac{1}{3}})^{\frac{1}{2}}\right)^6 = 2^{\frac{1}{3} \cdot \frac{1}{2} \cdot 6} = 2^{\frac{1}{3} \cdot 3} = 2^{\frac{3}{3}} = 2^1 = \sqrt[3]{2^3} = \sqrt[3]{8}$$

(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)



Exponential Functions Test And Answer Key

Rosina Ehmann



Exponential Functions Test And Answer Key:

The Enigmatic Realm of **Exponential Functions Test And Answer Key**: Unleashing the Language is Inner Magic

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