

Knowledge/Understanding

1. Evaluate each of the following. Answers must be expressed as rational numbers (ie. No decimals).

a) $\sqrt[3]{-59049}$
 $= -9$

b) $27^{\frac{5}{3}}$
 $= (27^{\frac{1}{3}})^5$
 $= 3^5$
 $= 243$

c) $\left(\frac{81}{64}\right)^{-\frac{3}{2}}$
 $= \left(\frac{3^4}{2^6}\right)^{-\frac{3}{2}}$
 $= \left[\left(\frac{3^4}{2^6}\right)^{\frac{1}{2}}\right]^{-3}$
 $= \left(\frac{3^2}{2^3}\right)^{-3}$
 $= \left(\frac{9}{8}\right)^{-3}$
 $= \frac{512}{729}$

2. Simplify each of the following as much as possible. Express answers with positive exponents.

a) $\frac{(27a^{-3}b^{12})^{\frac{1}{3}}}{(16a^{-4}b^{12})^{\frac{1}{2}}}$
 $= \frac{3a^{-1}b^4}{4a^{-2}b^6}$
 $= \frac{3}{4}a^5b^{-2}$
 $= \frac{3a^5}{4b^2}$

b) $\left(\frac{\sqrt[3]{x^6}}{\sqrt{x^3}}\right)^3$
 $= \left[\frac{x^{\frac{2}{3}}}{x^{\frac{3}{2}}}\right]^3$
 $= \left[x^{\frac{4}{5}}\right]^3$
 $= \left(x^{\frac{12}{5}}\right)^{\frac{1}{3}}$
 $= x^{\frac{4}{5}}$

3. a) Determine the type of function for the table of values shown.

x	y
1	10
2	40
3	160
4	640
5	2560

FD Ratio
 $30 \rightarrow 4$
 $120 \rightarrow 4$
 $480 \rightarrow 4$
 $1920 \rightarrow 4$

$\therefore$ the function is exponential since there's a constant ratio.

- b) Determine an equation for the above function.

Using (1, 10) sub into $y = a(4)^x + c$
 $10 = 4a + c$
 $40 = 16a + c$
 $-30 = -12a$

Using (2, 40) $40 = 16a + c$
 $a = 2.5$ $10 = 4(2.5) + c$
 $\therefore c = 0$
 $\therefore$ equation is $y = 2.5(4)^x$

- c) Determine another equation that would also represent the function by changing the base.

$4 = 2^2$ so $y = 2.5(2^2)^x$
 $y = 2.5(2)^{2x}$ is another equation.

Mcr3u Exponential Functions Test Answers

L Cohen



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