

NAME: _____

A2.N.1: Evaluate numerical expressions with negative and/or fractional exponents, without the aid of a calculator (when the answers are rational numbers)

1. 010217b, P.I. A2.N.1

The value of $\left(\frac{3^0}{27^{\frac{2}{3}}}\right)^{-1}$ is

- [A] -9 [B] 9 [C] $-\frac{1}{9}$ [D] $\frac{1}{9}$

2. 080601b, P.I. A2.N.1

The expression $4^{\frac{1}{2}} \cdot 2^3$ is equal to

- [A] 4 [B] $8^{\frac{3}{2}}$ [C] $4^{\frac{3}{2}}$ [D] 16

3. 080218b, P.I. A2.N.1

The expression $\frac{3^{\frac{1}{3}}}{3^{-\frac{2}{3}}}$ is equivalent to

- [A] $\sqrt{3}$ [B] 3 [C] 1 [D] $\frac{1}{\sqrt[3]{3}}$

4. 080322b, P.I. A2.N.1

Find the value of $(x+2)^0 + (x+1)^{-\frac{2}{3}}$ when $x = 7$.

A2.N.1: Evaluate numerical expressions with negative and/or fractional exponents, without the aid of a calculator (when the answers are rational numbers)

[1] B _____

[2] D _____

[3] B _____

[2] $1\frac{1}{4}$ or an equivalent answer, and

appropriate work is shown.

[1] Appropriate work is shown, but one computational error is made.

or [1] Appropriate work is shown, but one conceptual error is made.

or [1] $1\frac{1}{4}$ or an equivalent answer, but no

work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[4] incorrect procedure.