

NAME: _____

A2.A.10: Rewrite algebraic expressions with fractional exponents as radical expressions

1. 060208b, P.I. A2.A.10

If x is a positive integer, $4x^{\frac{1}{2}}$ is equivalent to

[A] $4\frac{1}{x}$ [B] $2x$ [C] $\frac{2}{x}$ [D] $4\sqrt{x}$

2. 010413b, P.I. A2.A.10

The expression $b^{-\frac{3}{2}}$, $b > 0$, is equivalent to

[A] $\frac{1}{(\sqrt[3]{b})^2}$ [B] $-(\sqrt{b})^3$
[C] $(\sqrt[3]{b})^2$ [D] $\frac{1}{(\sqrt{b})^3}$

3. 080807b, P.I. A2.A.10

If $n > 0$, the expression $\left(\frac{1}{n}\right)^{-\frac{2}{3}}$ is equal to

[A] $\sqrt[3]{n^2}$ [B] $-n^{\frac{3}{2}}$
[C] $-n^{\frac{2}{3}}$ [D] $\sqrt{n^3}$

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[1] D

[2] D

[3] A