

Name: _____

- 1
080601b The expression $4^{\frac{1}{2}} \cdot 2^3$ is equal to
- (1) $4^{\frac{3}{2}}$ (3) 16
(2) $8^{\frac{3}{2}}$ (4) 4

- 2
080218b The expression $\frac{3^{\frac{1}{3}}}{3^{-\frac{2}{3}}}$ is equivalent to
- (1) 1 (3) 3
(2) $\sqrt{3}$ (4) $\frac{1}{\sqrt[3]{3}}$

- 3
010217b The value of $\left(\frac{3^0}{27^{\frac{2}{3}}}\right)^{-1}$ is
- (1) -9 (3) $-\frac{1}{9}$
(2) 9 (4) $\frac{1}{9}$

- 4
060208b If x is a positive integer, $4x^{\frac{1}{2}}$ is equivalent to
- (1) $\frac{2}{x}$ (3) $4\sqrt{x}$
(2) $2x$ (4) $4\frac{1}{x}$

- 5
010413b The expression $b^{-\frac{3}{2}}$, $b > 0$, is equivalent to
- (1) $\frac{1}{(\sqrt[3]{b})^2}$ (3) $-(\sqrt{b})^3$
(2) $\frac{1}{(\sqrt{b})^3}$ (4) $(\sqrt[3]{b})^2$

- 6
080807b If $n > 0$, the expression $\left(\frac{1}{n}\right)^{-\frac{2}{3}}$ is equal to
- (1) $-n^{\frac{2}{3}}$ (3) $\sqrt[3]{n^2}$
(2) $-n^{\frac{3}{2}}$ (4) $\sqrt{n^3}$