Exercises - Radical Expressions

1

Which of the following is equal to $a^{-\frac{1}{2}}$?

A) $-\sqrt{a}$

B) $\dfrac{1}{\sqrt{a}}$

C) $-\dfrac{1}{\sqrt{a}}$

D) $\dfrac{1}{a^2}$

2

Which of the following is equal to $\dfrac{1}{3-2\sqrt{2}}$?

A) $3-\sqrt{2}$

B) $3+\sqrt{2}$

C) $3+2\sqrt{2}$

D) $3+4\sqrt{2}$

3

If $(x+1)^3 = -64$, what is the value of x ?

A) -6

B) -5

C) -4

D) -3

4

Which of the following is equal to $\sqrt{8}+\sqrt{18}-\sqrt{32}$?

A) $\sqrt{2}$

B) $2\sqrt{2}$

C) $3\sqrt{2}$

D) $\sqrt{3}$

5

Which of the following is equal to $(1+\sqrt{3})(2-\sqrt{3})$?

A) $1-\sqrt{3}$

B) $1+\sqrt{3}$

C) $-1-\sqrt{3}$

D) $-1+\sqrt{3}$

6

Which of the following is equal to $b^{\frac{5}{3}}$?

A) $b\cdot\sqrt{b}$

B) $b\cdot\sqrt{b^{\frac{1}{3}}}$

C) $b\cdot\sqrt[3]{b}$

D) $b\cdot\sqrt[3]{b^2}$