

**Simplifying Radicals**

Write each radical expression in the simplest form.

1)  $-\sqrt{512}$

\_\_\_\_\_

2)  $-2\sqrt{256}$

\_\_\_\_\_

3)  $4\sqrt{54}$

\_\_\_\_\_

4)  $\sqrt[3]{729}$

\_\_\_\_\_

5)  $\sqrt[3]{81}$

\_\_\_\_\_

7)  $-3\sqrt{441}$

\_\_\_\_\_

9)  $4\sqrt{147}$

\_\_\_\_\_

11)  $\sqrt[3]{192}$

\_\_\_\_\_

12)  $5\sqrt[3]{216}$

\_\_\_\_\_

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## Simplifying Radicals

Write each radical expression in the simplest form.

1)  $-\sqrt{512}$

$-16\sqrt{2}$

2)  $-2\sqrt{256}$

$-32$

3)  $4\sqrt{54}$

$12$

4)  $\sqrt[3]{729}$

$9$

5)  $\sqrt[3]{81}$

$3\sqrt[3]{3}$

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$-3\sqrt{11}$

7)  $-3\sqrt{441}$

$-63$

$-12\sqrt[3]{4}$

9)  $4\sqrt{147}$

$28\sqrt{3}$

$-10\sqrt{6}$

11)  $\sqrt[3]{192}$

$4\sqrt[3]{3}$

12)  $5\sqrt[3]{216}$

$30$