

Math 3 Advanced
11.2 Simplify Radicals

Simplify.

1. $\sqrt[5]{243}$

2. $-\sqrt[5]{-243}$

3. $\sqrt[3]{\frac{8}{125}}$

4. $-\sqrt[4]{(-10)^4}$

5. $\sqrt[3]{8a^3}$

6. $\sqrt[4]{256x^{20}y^4}$

7. $\sqrt[3]{\frac{8a^3}{27b^6}}$

8. $\sqrt[5]{\frac{-32}{3125x^{10}}}$

9. $-\sqrt[3]{-8(a+3b)^3}$

10. $\sqrt[3]{(a-b)^6(x+y)^9}$

Answer List

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|----------------------|--------------------------|
| 1. 3 | 2. 3 |
| 3. $\frac{2}{5}$ | 4. -10 |
| 5. $2a$ | 6. $4x^5y$ |
| 7. $\frac{2a}{3b^2}$ | 8. $\frac{-2}{5x^2}$ |
| 9. $2(a + 3b)$ | 10. $(a - b)^2(x + y)^3$ |

Catalog List

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|--------------|---------------|--------------|--------------|
| 1. TRI BB 9 | 2. TRI BB 17 | 3. TRI BB 25 | 4. TRI BB 33 |
| 5. TRI BB 41 | 6. TRI BB 45 | 7. TRI BB 49 | 8. TRI BB 53 |
| 9. TRI BB 69 | 10. TRI BB 73 | | |