

Math 3 Advanced
11.1 Radical Expressions

Rewrite using exponents.

1. $\sqrt{m^7}$

2. $\sqrt{3m^5}$

3. $\sqrt[3]{x^2}$

4. $\sqrt[3]{5x^2}$

5. $\sqrt{a^5b^2}$

6. $\sqrt[3]{a^2b^6}$

7. $\sqrt{2a + 3b}$

8. $\sqrt[4]{(3x - 2y)^3}$

Rewrite without any exponents.

9. $3^{\frac{1}{2}}5^{\frac{3}{2}}$

10. $2^{\frac{1}{2}}3^{\frac{1}{3}}$

11. $c^{\frac{3}{2}}$

12. $a^{\frac{4}{3}}$

13. $b^{\frac{2}{3}}$

14. $m^{\frac{1}{2}}n^{\frac{1}{3}}$

15. $(a + b)^{\frac{1}{2}}$

16. $(2c + 5)^{\frac{3}{4}}$

Answer List

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|------------------------------|-------------------------------------|
| 1. $m^{\frac{7}{2}}$ | 2. $3^{\frac{1}{2}}m^{\frac{5}{2}}$ |
| 3. $x^{\frac{2}{3}}$ | 4. $5^{\frac{1}{3}}x^{\frac{2}{3}}$ |
| 5. $a^{\frac{5}{2}}b$ | 6. $a^{\frac{2}{3}}b^2$ |
| 7. $(2a + 3b)^{\frac{1}{2}}$ | 8. $(3x - 2y)^{\frac{3}{4}}$ |
| 9. $5\sqrt{15}$ | 10. $\sqrt[6]{72}$ |
| 11. $c\sqrt{c}$ | 12. $a\sqrt[3]{a}$ |
| 13. $\sqrt[3]{b^2}$ | 14. $\sqrt[6]{m^3n^2}$ |
| 15. $\sqrt{a + b}$ | 16. $\sqrt[4]{(2c + 5)^3}$ |

Catalog List

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|---------------|---------------|---------------|---------------|
| 1. TRI BG 37 | 2. TRI BG 41 | 3. TRI BG 45 | 4. TRI BG 49 |
| 5. TRI BG 53 | 6. TRI BG 57 | 7. TRI BG 61 | 8. TRI BG 65 |
| 9. TRI BH 33 | 10. TRI BH 37 | 11. TRI BH 41 | 12. TRI BH 45 |
| 13. TRI BH 49 | 14. TRI BH 53 | 15. TRI BH 57 | 16. TRI BH 61 |