

Write in radical form:

1. $x^{3/5}$

2. $y^{2/9}$

3. $x^{1/3}$

Write in fractional exponential form

4. \sqrt{y}

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

6. $\sqrt{x^2}$

Simplify

7. $\sqrt{250x^7y^4z^5} + x^2yz^2\sqrt{40x^3y^2z}$

8. $\sqrt[3]{8x^3y^2} - x^3\sqrt{49y^2}$

9. $3\sqrt{7}(2\sqrt{3} + 5\sqrt{7})$

10. $(3\sqrt{5} + 3\sqrt{2})^2$

11. $(2\sqrt{3} - 5\sqrt{6})(2\sqrt{2} - 4\sqrt{3})$

12. $\frac{4}{(\sqrt{2} + \sqrt{3})}$

13. $\frac{-3\sqrt{2}}{(\sqrt{5} - \sqrt{4})}$

14. $\frac{1}{\sqrt[3]{4xy^4}}$

15. $\frac{2}{\sqrt{27xy}}$

16. $3x^3\sqrt{54x^8y^{10}} - 2x^2y^3\sqrt{16x^5y^7}$

