

Rational Exponents and Radicals Assignment

Change the following expression from rational exponents to radicals.

1. $g^{3/5}$

2. $d^{2/5}$

3. $(a^3)^{5/2}$

4. $(v^2)^{5/3}$

5. $10^{2/3}$

Change the following radicals to rational exponents.

6. $\sqrt{x^5}$

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

8. $\sqrt{5^3}$

9. $\sqrt{11}$

10. $\sqrt{ab^3}$

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Simplify the following expressions with rational exponents.

11. $(9)^{5/2}$

12. $64^{3/2}$

13. $(4x^4)^{1/2}$

14. $(b^6)^{-2/3}$

Evaluate the following radicals.

15. $\sqrt[6]{8}$

16. $\sqrt[4]{4x^8}$

17. $\sqrt[3]{16}$

18. $\sqrt[7]{x^9}$

19. $\sqrt[3]{\frac{9}{x^{12}}}$

20. $\sqrt[4]{\frac{3}{16x^8}}$