

Solve each of the following equations, check the answers if necessary.

1. $2x^{5/3} = -64$

2. $(x+2)^{2/3} = 4$

3. $\sqrt[4]{2x+3} = \sqrt[4]{4x-7}$

4. $\sqrt{3x+1} = \sqrt{x-5}$

5. $\sqrt{2x-3} = x-3$

6. $(2x+3)^{1/3} - 5 = -2$

7. $\sqrt{5x-1} + 8 = 2$

8. $\frac{1}{3}x^{2/3} = 10$

9. $4\sqrt{3x+2} = \sqrt{6x+11}$

10. $\sqrt[4]{2x-5} - 10 = -9$

11. $\sqrt{6x-5} + 10 = 3$

12. $\sqrt[3]{x+40} - \sqrt[3]{3x} = 0$

13. $4x^{1/3} - \frac{3}{2} = 0$

14. $-\frac{1}{2}x^{1/5} = 16$

15. $\frac{2}{3}(x+2)^{4/3} = -18$