

## Other Equations

### Equations with Radicals

1.  $\sqrt[3]{4x+3} = \sqrt[3]{2x-1}$

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

3.  $\sqrt[3]{5x^2-6x+2} - \sqrt[3]{x} = 0$

4.  $\sqrt[3]{3x^2-9x+8} = \sqrt[3]{x}$

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

6.  $\sqrt[4]{4x+5} = 2$

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

8.  $\sqrt[4]{x^2+5x} = \sqrt[4]{6}$

9.  $x^{\frac{3}{2}} = 8$

10.  $x^{\frac{3}{2}} = 27$

11.  $x^{\frac{3}{2}} = -27$

12.  $x^{\frac{3}{2}} = -8$

13.  $x^{\frac{2}{3}} = 25$

14.  $x^{\frac{2}{3}} = 49$

15.  $x^{\frac{3}{4}} = 64$

16.  $x^{\frac{3}{4}} = 125$

17.  $x^{\frac{4}{3}} = 16$

18.  $x^{\frac{4}{3}} = 625$

19.  $(x+5)^{\frac{2}{3}} = 16$

20.  $(x-7)^{\frac{2}{3}} = 36$

21.  $(x-8)^{\frac{3}{2}} = -64$

22.  $(x+8)^{\frac{3}{2}} = -125$

23.  $(x+3)^{\frac{3}{4}} - 7 = 118$

24.  $(x+3)^{\frac{3}{4}} - 7 = -34$

25.  $(x-4)^{\frac{2}{5}} + 8 = 57$

26.  $(x+6)^{\frac{2}{5}} + 7 = 107$