SOLUCIONES ECUACIONES BICUADRADAS

1. $x_1 = 3$ $x_2 = -3$ $x_3 = 2$ $x_4 = -2$

2. $x_1 = 1/3$ $x_2 = -1/3$ $x_3 = 1/4$ $x_4 = -1/4$

3. $x_1 = 2$ $x_2 = -2$ $x_3 = 1/2$ $x_4 = -1/2$

4. $x = \sqrt{-3}$ ∄ $x = \sqrt{-1}$ ∄ ∄ Solución

5. $x_1 = 3$ $x_2 = -3$ $x = \sqrt{-1}$ ∄

6. $x_1 = \sqrt{\frac{1}{3}} = \frac{\sqrt{3}}{3}$ $x_3 = \sqrt{\frac{3}{2}} = \frac{\sqrt{6}}{2}$ $x_2 = -\sqrt{\frac{1}{3}} = -\frac{\sqrt{3}}{3}$ $x_4 = -\sqrt{\frac{3}{2}} = -\frac{\sqrt{6}}{2}$

7. $x_1 = \sqrt{\frac{1}{2}} = \frac{\sqrt{2}}{2}$ $x_2 = -\sqrt{\frac{1}{2}} = -\frac{\sqrt{2}}{2}$ $x = \sqrt{-1/4}$ ∄

8. $x_1 = 3$ $x_2 = -3$ $x = \sqrt{-25}$ ∄

9. $x_1 = 2/3$ $x_2 = -2/3$ $x = \sqrt{-1}$ ∄

10. $x_1 = \sqrt{\frac{1}{3}} = \frac{\sqrt{3}}{3}$ $x_2 = -\sqrt{\frac{1}{3}} = -\frac{\sqrt{3}}{3}$ $x_3 = \sqrt{\frac{3}{2}} = \frac{\sqrt{6}}{2}$ $x_4 = -\sqrt{\frac{3}{2}} = -\frac{\sqrt{6}}{2}$

11. $x_1 = 1$ $x_2 = -1$ $x = \sqrt{-1/3}$ ∄

12. $x_1 = 4$ $x_2 = -4$ $x_3 = 5$ $x_4 = -5$

13. $x_1 = \frac{\sqrt{15+\sqrt{97}}}{2}$ $x_3 = \frac{\sqrt{15-\sqrt{97}}}{2}$ $x_2 = \frac{-\sqrt{15+\sqrt{97}}}{2}$ $x_4 = \frac{-\sqrt{15-\sqrt{97}}}{2}$

14. $x_1 = 4$ $x_2 = -4$ $x_3 = 3$ $x_4 = -3$

15. $x_1 = 1/3$ $x_2 = -1/3$ $x_3 = 1/2$ $x_4 = -1/2$

16. $x_1 = 5$ $x_2 = -5$ $x_3 = 1$ $x_4 = -1$

17. $x_1 = \sqrt{4+\sqrt{2}}$ $x_2 = -\sqrt{4+\sqrt{2}}$ $x_3 = \sqrt{4-\sqrt{2}}$ $x_4 = -\sqrt{4-\sqrt{2}}$

18. $x_1 = 2\sqrt{\frac{11}{3}} = \frac{2\sqrt{33}}{3}$ $x_2 = -2\sqrt{\frac{11}{3}} = -\frac{2\sqrt{33}}{3}$ ~~$x_3 = \sqrt{6}$~~ ~~$x_4 = -\sqrt{6}$~~

19. $x_1 = \sqrt{\frac{3}{7}} = \frac{\sqrt{21}}{7}$ $x_2 = -\sqrt{\frac{3}{7}} = -\frac{\sqrt{21}}{7}$ $x_3 = 2$ $x_4 = -2$

20. $x_1 = 4$ $x_2 = -4$ $x_3 = 0$