



1. Resuelve la ecuación:

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|----------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| 1. $\sqrt{3x-8} - 2 = 0$ | 2. $\sqrt{4x-8} - 2 = 0$ | 3. $\sqrt{2x+2} - 2 = 0$ | 4. $\sqrt{4x+3} - 2 = 0$ | 5. $2 - \sqrt{3x+2} = 0$ |
| 6. $2 - \sqrt{2x+5} = 0$ | 7. $\sqrt{3x+10} - 1 = 0$ | 8. $4 - \sqrt{4x+17} = 0$ | 9. $3 - \sqrt{3x+12} = 0$ | 10. $\sqrt{3x+10} - 2 = 0$ |
| 11. $4 - \sqrt{12x+7} = 0$ | 12. $\sqrt{3x+13} - 3 = 0$ | 13. $4 - \sqrt{2x+15} = 0$ | 14. $\sqrt{2x+10} - 2 = 0$ | 15. $\sqrt{4x+103} = 10$ |
| 16. $5 - \sqrt{2x+23} = 0$ | 17. $\sqrt{4x+22} - 5 = 0$ | 18. $\sqrt{2x+22} - 5 = 0$ | 19. $\sqrt{3x+23} - 5 = 0$ | 20. $4 - \sqrt{4x+28} = 0$ |
| 21. $\sqrt{2} - \sqrt{4x+3} = 0$ | 22. $\sqrt{3x+71} - 5\sqrt{3} = 0$ | 23. $\sqrt{2x+31} - 4\sqrt{2} = 0$ | 24. $4\sqrt{2} - \sqrt{6x+35} = 0$ | 25. $5\sqrt{2} - \sqrt{4x+53} = 0$ |

2. Resuelve la ecuación:

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|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|
| 1. $1 - \sqrt{2x^2-1} = 0$ | 2. $\sqrt{4x^2+24} = 5$ | 3. $\sqrt{3x^2+22} = 5$ | 4. $\sqrt{4x^2-3} - 1 = 0$ | 5. $4 - \sqrt{x^2+15} = 0$ |
| 6. $\sqrt{x^2+21} - 5 = 0$ | 7. $\sqrt{4x^2-5} - 2 = 0$ | 8. $\sqrt{4x^2+7} - 4 = 0$ | 9. $\sqrt{x^2+24} - 5 = 0$ | 10. $\sqrt{2x^2+2} - 2 = 0$ |
| 11. $\sqrt{2x^2+7} - 3 = 0$ | 12. $\sqrt{12x^2+33} = 6$ | 13. $2 - \sqrt{4x^2-12} = 0$ | 14. $2 - \sqrt{16x^2-5} = 0$ | 15. $\sqrt{18x^2+7} - 3 = 0$ |
| 16. $\sqrt{16x^2+7} - 4 = 0$ | 17. $5 - \sqrt{3x^2+13} = 0$ | 18. $\sqrt{4x^2+12} - 4 = 0$ | 19. $5 - \sqrt{2x^2+17} = 0$ | 20. $\sqrt{18x^2+4} - 6 = 0$ |
| 21. $\sqrt{4x^2+15} - 4 = 0$ | 22. $\sqrt{2x^2-23} - 3 = 0$ | 23. $\sqrt{4x^2+35} - 6 = 0$ | 24. $\sqrt{9x^2+24} - 5 = 0$ | 25. $\sqrt{16x^2+16} - 5 = 0$ |

3. Resuelve la ecuación:

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|------------------------------------|----------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|
| 1. $2 - \sqrt{x^3+5} = 0$ | 2. $\sqrt{x^3+8} - 3 = 0$ | 3. $\sqrt{x^3+3} - 2 = 0$ | 4. $\sqrt{3x^3-77} = 2$ | 5. $\sqrt{3x^3-20} = 2$ |
| 6. $\sqrt{2x^3-1} - 1 = 0$ | 7. $\sqrt{2x^3+28} = 2$ | 8. $\sqrt{x^3+17} - 3 = 0$ | 9. $\sqrt{2x^3+3} - 1 = 0$ | 10. $\sqrt{8x^3+3} - 2 = 0$ |
| 11. $\sqrt{2x^3+2} - 2 = 0$ | 12. $2 - \sqrt{3x^3+7} = 0$ | 13. $3 - \sqrt{3x^3+6} = 0$ | 14. $\sqrt{27x^3+82} = 9$ | 15. $\sqrt{2x^3-12} - 2 = 0$ |
| 16. $\sqrt{3x^3-23} - 1 = 0$ | 17. $\sqrt{3x^3+12} - 3 = 0$ | 18. $\sqrt{2x^3+20} - 2 = 0$ | 19. $\sqrt{3x^3+90} - 3 = 0$ | 20. $\sqrt{3x^3+33} - 3 = 0$ |
| 21. $\sqrt{8x^3+9} - \sqrt{8} = 0$ | 22. $\sqrt{8x^3+33} = 2\sqrt{8}$ | 23. $\sqrt{24x^3+5} - \sqrt{8} = 0$ | 24. $\sqrt{24x^3+11} - \sqrt{8} = 0$ | 25. $3\sqrt{8} - \sqrt{8x^3+71} = 0$ |

4. Resuelve la ecuación:

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|----------------------------------------|----------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|
| 1. $\sqrt[3]{x+12} - 2 = 0$ | 2. $\sqrt[3]{2x+2} - 1 = 0$ | 3. $\sqrt[3]{4x+4} - 2 = 0$ | 4. $\sqrt[3]{2x+7} - 2 = 0$ | 5. $\sqrt[3]{x+26} - 3 = 0$ |
| 6. $3 - \sqrt[3]{x+25} = 0$ | 7. $\sqrt[3]{3x+7} - 2 = 0$ | 8. $2 - \sqrt[3]{3x+5} = 0$ | 9. $1 - \sqrt[3]{3x+13} = 0$ | 10. $\sqrt[3]{4x+17} - 1 = 0$ |
| 11. $\sqrt[3]{2x+11} - 2 = 0$ | 12. $\sqrt[3]{2x+31} - 3 = 0$ | 13. $\sqrt[3]{3x+10} - 2 = 0$ | 14. $2 - \sqrt[3]{3x+12} = 0$ | 15. $\sqrt[3]{4x+31} - 3 = 0$ |
| 16. $3 - \sqrt[3]{2x+28} = 0$ | 17. $3 - \sqrt[3]{4x+35} = 0$ | 18. $3 - \sqrt[3]{4x+24} = 0$ | 19. $\sqrt[3]{2x+25} - 3 = 0$ | 20. $\sqrt[3]{4x+43} - 3 = 0$ |
| 21. $\sqrt[3]{3x+7} - \sqrt[3]{3} = 0$ | 22. $\sqrt[3]{4x+3} - \sqrt[3]{2} = 0$ | 23. $\sqrt[3]{6x+13} - 2\sqrt[3]{2} = 0$ | 24. $3\sqrt[3]{3} - \sqrt[3]{6x+73} = 0$ | 25. $\sqrt[3]{3x+22} - 2\sqrt[3]{3} = 0$ |

5. Resuelve la ecuación:

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|------------------------------------------|--------------------------------------|------------------------------------------|-------------------------------------------|-------------------------------------------|
| 1. $\sqrt[3]{16x^2+18} = 3$ | 2. $\sqrt[3]{9x^2-13} = \sqrt[3]{3}$ | 3. $\sqrt[3]{4x^2-8} - 1 = 0$ | 4. $3 - \sqrt[3]{4x^2-9} = 0$ | 5. $\sqrt[3]{2x^2-5} - 3 = 0$ |
| 6. $2 - \sqrt[3]{9x^2-8} = 0$ | 7. $\sqrt[3]{4x^2+7} - 2 = 0$ | 8. $2 - \sqrt[3]{9x^2+7} = 0$ | 9. $2 - \sqrt[3]{4x^2+7} = 0$ | 10. $2 - \sqrt[3]{9x^2+4} = 0$ |
| 11. $\sqrt[3]{x^2+26} - 3 = 0$ | 12. $1 - \sqrt[3]{3x^2-11} = 0$ | 13. $\sqrt[3]{4x^2+11} - 3 = 0$ | 14. $3 - \sqrt[3]{3x^2+15} = 0$ | 15. $\sqrt[3]{2x^2+19} - 3 = 0$ |
| 16. $\sqrt[3]{16x^2+7} - 2 = 0$ | 17. $\sqrt[3]{2x^2-24} - 2 = 0$ | 18. $\sqrt[3]{3x^2+24} - 3 = 0$ | 19. $3 - \sqrt[3]{2x^2+25} = 0$ | 20. $3 - \sqrt[3]{9x^2+23} = 0$ |
| 21. $\sqrt[3]{4x^2-7} - \sqrt[3]{2} = 0$ | 22. $3 - \sqrt[3]{16x^2+18} = 0$ | 23. $\sqrt[3]{9x^2+5} - \sqrt[3]{9} = 0$ | 24. $\sqrt[3]{18x^2+1} - \sqrt[3]{9} = 0$ | 25. $2\sqrt[3]{3} - \sqrt[3]{9x^2+8} = 0$ |

6. Resuelve la ecuación:

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|----------------------------------------|---------------------------------|---------------------------------|------------------------------------------|----------------------------------|
| 1. $\sqrt[3]{2x^3-46} = 2$ | 2. $\sqrt[3]{24x^3+5} = 2$ | 3. $\sqrt[3]{2x^3+25} = 3$ | 4. $\sqrt[3]{8x^3+215} = 6$ | 5. $\sqrt[3]{2x^3-1} - 1 = 0$ |
| 6. $\sqrt[3]{x^3-26} - 1 = 0$ | 7. $\sqrt[3]{3x^3-2} - 1 = 0$ | 8. $\sqrt[3]{54x^3+218} = 6$ | 9. $\sqrt[3]{27x^3+215} = 6$ | 10. $\sqrt[3]{24x^3+213} = 6$ |
| 11. $\sqrt[3]{8x^3+31} = 2\sqrt[3]{4}$ | 12. $\sqrt[3]{x^3+28} - 3 = 0$ | 13. $2 - \sqrt[3]{2x^3+6} = 0$ | 14. $\sqrt[3]{2x^3-15} - 1 = 0$ | 15. $2 - \sqrt[3]{3x^3+11} = 0$ |
| 16. $1 - \sqrt[3]{2x^3+17} = 0$ | 17. $3 - \sqrt[3]{2x^3+81} = 0$ | 18. $\sqrt[3]{2x^3+55} - 1 = 0$ | 19. $3 - \sqrt[3]{2x^3-27} = 0$ | 20. $\sqrt[3]{2x^3+43} - 3 = 0$ |
| 21. $\sqrt[3]{2x^3+29} - 3 = 0$ | 22. $\sqrt[3]{3x^3+32} - 2 = 0$ | 23. $\sqrt[3]{3x^3+30} - 3 = 0$ | 24. $\sqrt[3]{8x^3+3} - \sqrt[3]{4} = 0$ | 25. $2 - \sqrt[3]{24x^3+11} = 0$ |

7. Resuelve la ecuación:

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|----------------------------------|-----------------------------------|-----------------------------------|-------------------------------------|
| 1. $\sqrt{4x+20} = 4\sqrt{3x+4}$ | 2. $3\sqrt{2x+14} = 4\sqrt{2x+7}$ | 3. $4\sqrt{x+10} = 3\sqrt{4x+20}$ | 4. $4\sqrt{x-1} - \sqrt{3x+10} = 0$ |
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|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| 5. $\sqrt{8x+6} - 3\sqrt{2x-1} = 0$ | 6. $4\sqrt{2x+5} - \sqrt{x+18} = 0$ | 7. $3\sqrt{3x+1} - 2\sqrt{x+8} = 0$ | 8. $4\sqrt{x+6} - 3\sqrt{x+13} = 0$ |
| 9. $2\sqrt{2x-3} - \sqrt{3x-2} = 0$ | 10. $\sqrt{4x+8} - 2\sqrt{4x-4} = 0$ | 11. $4\sqrt{x+6} - 3\sqrt{4x+4} = 0$ | 12. $3\sqrt{2x+2} - 2\sqrt{x+8} = 0$ |
| 13. $\sqrt{2x+8} - 2\sqrt{4x+9} = 0$ | 14. $\sqrt{2x+14} - \sqrt{4x+12} = 0$ | 15. $\sqrt{2x+17} - \sqrt{4x+16} = 0$ | 16. $3\sqrt{4x-15} - \sqrt{4x-7} = 0$ |
| 17. $4\sqrt{2x+1} - \sqrt{8x+28} = 0$ | 18. $\sqrt{4x+26} - 4\sqrt{6x-7} = 0$ | 19. $\sqrt{3x+44} - 4\sqrt{9x-9} = 0$ | 20. $\sqrt{4x+34} - 4\sqrt{2x+3} = 0$ |
| 21. $2\sqrt{3x+8} - \sqrt{9x+36} = 0$ | 22. $2\sqrt{4x+6} - \sqrt{6x+29} = 0$ | 23. $4\sqrt{2x+5} - \sqrt{3x+22} = 0$ | 24. $3\sqrt{4x+2} - \sqrt{4x+34} = 0$ |

8. Resuelve la ecuación:

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|----------------------------------------|----------------------------------------|----------------------------------------|-----------------------------------------|
| 1. $\sqrt{x^2+10x} = \sqrt{9x+12}$ | 2. $\sqrt{5x+1} - \sqrt{x^2+5x} = 0$ | 3. $\sqrt{8x^2-x} - \sqrt{9x+3} = 0$ | 4. $\sqrt{x^2+4x} - \sqrt{8x-3} = 0$ |
| 5. $\sqrt{x^2+2x} - \sqrt{6x-3} = 0$ | 6. $\sqrt{x^2+7x} - \sqrt{6x+6} = 0$ | 7. $\sqrt{x^2+9x} - \sqrt{9x+4} = 0$ | 8. $\sqrt{x^2+6x} - \sqrt{7x+2} = 0$ |
| 9. $\sqrt{x^2+7x} - \sqrt{8x+2} = 0$ | 10. $\sqrt{x^2+4x} - \sqrt{6x+3} = 0$ | 11. $\sqrt{x^2+8x} - \sqrt{8x+9} = 0$ | 12. $\sqrt{x^2+9x} - \sqrt{6x+4} = 0$ |
| 13. $\sqrt{x^2+4x} - \sqrt{3x+2} = 0$ | 14. $\sqrt{x^2+7x} - \sqrt{8x+2} = 0$ | 15. $\sqrt{x^2+2x} - \sqrt{3x+2} = 0$ | 16. $\sqrt{x^2+11x} - \sqrt{9x+3} = 0$ |
| 17. $\sqrt{6x^2-9x} - \sqrt{4x-6} = 0$ | 18. $\sqrt{4x^2+7x} - \sqrt{7x+1} = 0$ | 19. $\sqrt{x^2+10x} - \sqrt{9x+2} = 0$ | 20. $\sqrt{2x-3} - \sqrt{2x^2-3x} = 0$ |
| 21. $\sqrt{8x^2+7x} - \sqrt{9x+1} = 0$ | 22. $\sqrt{4x^2+6x} - \sqrt{9x+1} = 0$ | 23. $\sqrt{3x^2+8x} - \sqrt{6x+1} = 0$ | 24. $2\sqrt{x+1} - \sqrt{9x^2+13x} = 0$ |

9. Resuelve la ecuación:

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|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|
| 1. $\sqrt{3x^2+4} = 2\sqrt{2x^2-4}$ | 2. $\sqrt{x^2+7} = 2\sqrt{3x^2-23}$ | 3. $2\sqrt{3x^2-8} = \sqrt{3x^2+4}$ | 4. $2\sqrt{2x^2+2} = \sqrt{2x^2+14}$ |
| 5. $\sqrt{2x^2-1} - \sqrt{3x^2-2} = 0$ | 6. $\sqrt{x^2+8} - 3\sqrt{2x^2-1} = 0$ | 7. $4\sqrt{2x^2+7} = 3\sqrt{3x^2+13}$ | 8. $\sqrt{2x^2+2} - \sqrt{3x^2+1} = 0$ |
| 9. $2\sqrt{x^2+3} - \sqrt{x^2+15} = 0$ | 10. $3\sqrt{2x^2+14} = 4\sqrt{3x^2+6}$ | 11. $4\sqrt{2x^2-7} - \sqrt{x^2+7} = 0$ | 12. $2\sqrt{2x^2-1} - \sqrt{3x^2+1} = 0$ |
| 13. $\sqrt{x^2+15} - 4\sqrt{2x^2-1} = 0$ | 14. $4\sqrt{2x^2-7} - \sqrt{x^2+12} = 0$ | 15. $\sqrt{2x^2+1} - 3\sqrt{2x^2-7} = 0$ | 16. $\sqrt{x^2+15} - 2\sqrt{2x^2+2} = 0$ |
| 17. $3\sqrt{x^2+7} - 4\sqrt{2x^2-9} = 0$ | 18. $\sqrt{16x^2-4} - \sqrt{8x^2+14} = 0$ | 19. $\sqrt{2x^2+14} - \sqrt{3x^2+13} = 0$ | 20. $\sqrt{2x^2-14} - \sqrt{3x^2-23} = 0$ |
| 21. $3\sqrt{3x^2+13} - 4\sqrt{x^2+8} = 0$ | 22. $2\sqrt{3x^2-3} - 3\sqrt{3x^2-8} = 0$ | 23. $3\sqrt{3x^2-26} - \sqrt{2x^2-9} = 0$ | 24. $3\sqrt{x^2+15} - 4\sqrt{3x^2+6} = 0$ |

10. Resuelve la ecuación:

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|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|
| 1. $2x = \sqrt{14x-6}$ | 2. $2x = \sqrt{15x-9}$ | 3. $6x = \sqrt{9-15x}$ | 4. $x - \sqrt{8-2x} = 0$ | 5. $\sqrt{3x-2} - x = 0$ |
| 6. $x - \sqrt{8x-2} = 0$ | 7. $x - \sqrt{4x-3} = 0$ | 8. $\sqrt{3-2x} - x = 0$ | 9. $\sqrt{2x+3} - x = 0$ | 10. $x - \sqrt{2x+3} = 0$ |
| 11. $x - \sqrt{3x+4} = 0$ | 12. $3x - \sqrt{6x-1} = 0$ | 13. $6x - \sqrt{6-6x} = 0$ | 14. $3x - \sqrt{3x+6} = 0$ | 15. $2x - \sqrt{2x+2} = 0$ |
| 16. $\sqrt{2x+6} - 2x = 0$ | 17. $2x - \sqrt{4x+3} = 0$ | 18. $6x - \sqrt{21x-3} = 0$ | 19. $2x - \sqrt{10x-6} = 0$ | 20. $3x - \sqrt{3x+12} = 0$ |
| 21. $6x - \sqrt{6x+12} = 0$ | 22. $2x - \sqrt{10x+6} = 0$ | 23. $4x - \sqrt{20x+6} = 0$ | 24. $6x - \sqrt{51x-18} = 0$ | 25. $6x - \sqrt{42x+18} = 0$ |

11. Resuelve la ecuación:

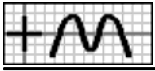
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|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|
| 1. $3x-1 = 3\sqrt{3x-3}$ | 2. $3x+2 = \sqrt{3x+14}$ | 3. $\sqrt{3x+1} - x-1 = 0$ | 4. $\sqrt{x+17} - x-5 = 0$ | 5. $3\sqrt{3x-1} - 3x = 1$ |
| 6. $\sqrt{4x-11} + 5 = 2x$ | 7. $\sqrt{4x+8} - x-2 = 0$ | 8. $\sqrt{x+4} - 2x-7 = 0$ | 9. $\sqrt{2x+15} - 9 = 2x$ | 10. $\sqrt{4x+13} - 2x = 7$ |
| 11. $3\sqrt{3x+3} - 5 = 3x$ | 12. $2\sqrt{2x+5} - 2x = 5$ | 13. $2\sqrt{2x+8} - 5 = 2x$ | 14. $\sqrt{3x+6} - 2x-1 = 0$ | 15. $4\sqrt{4x+7} - 4x = 11$ |
| 16. $2\sqrt{2x+13} - 5 = 2x$ | 17. $\sqrt{3x+3} - 3x+3 = 0$ | 18. $3\sqrt{3x-1} - 3x-1 = 0$ | 19. $2\sqrt{2x+19} - 11 = 2x$ | 20. $2x-2\sqrt{2x+1} + 1 = 0$ |
| 21. $\sqrt{3x+12} - 2x-5 = 0$ | 22. $\sqrt{3x+10} - 3x-8 = 0$ | 23. $\sqrt{4x+13} - 3x-6 = 0$ | 24. $6x-2\sqrt{2x+3} + 1 = 0$ | 25. $3x - \sqrt{3x+17} + 5 = 0$ |

12. Resuelve la ecuación:

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|-------------------------------|-------------------------------|-------------------------------|----------------------------------|--------------------------------|
| 1. $\sqrt{x^2+8} - x = 2$ | 2. $3x - \sqrt{x^2+3} = 1$ | 3. $\sqrt{3x^2+1} - x = 3$ | 4. $\sqrt{2x^2+7} - x = 2$ | 5. $3x - \sqrt{3x^2+1} = 1$ |
| 6. $2x-1 = \sqrt{3x^2-3}$ | 7. $3x-1 = \sqrt{9x^2-7}$ | 8. $3x-2 = \sqrt{3x^2-2}$ | 9. $x+5 = \sqrt{2x^2+14}$ | 10. $3x - \sqrt{2x^2+8} = 2$ |
| 11. $\sqrt{2x^2+1} - 2x = 7$ | 12. $\sqrt{3x^2-44} - x = 6$ | 13. $2x+9 = \sqrt{12x^2+9}$ | 14. $\sqrt{4x^2-8} - 4 = 2x$ | 15. $\sqrt{3x^2+6} - 5 = 2x$ |
| 16. $3x - \sqrt{2x^2-14} = 7$ | 17. $\sqrt{x^2+12} - x-2 = 0$ | 18. $\sqrt{4x^2+12} - 1 = 3x$ | 19. $x - \sqrt{3x^2-8} + 4 = 0$ | 20. $\sqrt{9x^2-15} - 5 = 3x$ |
| 21. $\sqrt{3x^2+6} - x-2 = 0$ | 22. $\sqrt{x^2+8} - 2x-5 = 0$ | 23. $\sqrt{2x^2+14} - 7 = 3x$ | 24. $x - \sqrt{4x^2-15} + 3 = 0$ | 25. $\sqrt{18x^2+4} - 10 = 3x$ |

13. Resuelve la ecuación:

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|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. $\sqrt{2x+10} - \sqrt{x+1} = 2$ | 2. $\sqrt{4x-4} - \sqrt{4x-7} = 1$ | 3. $\sqrt{3x-5} + 1 = \sqrt{4x-4}$ | 4. $\sqrt{2x+3} + 1 = \sqrt{4x+4}$ |
| 5. $3 - \sqrt{2x+4} = \sqrt{2x+7}$ | 6. $\sqrt{3x+14} - 1 = \sqrt{3x+7}$ | 7. $\sqrt{2x+15} - 2 = \sqrt{2x+3}$ | 8. $\sqrt{3x+18} - 2 = \sqrt{3x+6}$ |



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| 9. $\sqrt{3x+14} - 2 = \sqrt{3x+2}$ | 10. $\sqrt{2x} - \sqrt{2x+8} + 2 = 0$ | 11. $2\sqrt{3x+1} - \sqrt{4x+5} = 1$ | 12. $\sqrt{3x+12} - \sqrt{3x+5} = 1$ |
| 13. $\sqrt{4x+11} - \sqrt{2x+2} = 2$ | 14. $\sqrt{3x+13} - \sqrt{2x+7} = 1$ | 15. $\sqrt{4x+13} - \sqrt{4x-2} = 3$ | 16. $\sqrt{4x+15} - \sqrt{2x+4} = 2$ |
| 17. $\sqrt{3x+19} - \sqrt{3x+4} = 3$ | 18. $\sqrt{3x+18} - \sqrt{3x+3} = 3$ | 19. $\sqrt{2x+18} - \sqrt{2x+11} = 1$ | 20. $2\sqrt{2x+6} - \sqrt{2x+3} = 3$ |
| 21. $\sqrt{2x+17} - \sqrt{2x+10} = 1$ | 22. $3\sqrt{2x+1} - \sqrt{2x+13} = 2$ | 23. $\sqrt{2x+1} - \sqrt{4x+5} + 2 = 0$ | 24. $\sqrt{2x+18} - \sqrt{x+5} - 2 = 0$ |

14. Resuelve la ecuación:

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|-----------------------------------|-----------------------------------|------------------------------------|-----------------------------------|------------------------------------|
| 1. $2x+1 = \sqrt{8x^3+1}$ | 2. $3-x\sqrt{2x-2} = 3x$ | 3. $3x+1 = \sqrt{6x^3+1}$ | 4. $3-4x = \sqrt{9-8x^3}$ | 5. $4-x\sqrt{16x+41} = x$ |
| 6. $x\sqrt{7-6x} + 3 = 2x$ | 7. $x\sqrt{3x-2} + 3x = 2$ | 8. $\sqrt{9-8x^3} + 2x = 3$ | 9. $\sqrt{8x^3+9} - 3 = 4x$ | 10. $x\sqrt{5-2x} - x + 4 = 0$ |
| 11. $x\sqrt{4x+5} - x - 2 = 0$ | 12. $\sqrt{16x^3+9} + 3 = 8x$ | 13. $8x - x\sqrt{19-27x} = 6$ | 14. $4x - \sqrt{8x^3+1} - 1 = 0$ | 15. $2x - \sqrt{8x^3+1} + 1 = 0$ |
| 16. $\sqrt{1-3x^3} + 3x + 1 = 0$ | 17. $5x+1 + \sqrt{1-15x^3} = 0$ | 18. $4-x\sqrt{72x-23} = 11x$ | 19. $6-x\sqrt{48x-23} = 11x$ | 20. $\sqrt{81x^3+1} - 9x + 1 = 0$ |
| 21. $\sqrt{1-24x^3} + 6x + 1 = 0$ | 22. $\sqrt{40-3x^3} + 3x - 2 = 0$ | 23. $\sqrt{-12x^3-3} + 6x + 3 = 0$ | 24. $2x + 3 + x\sqrt{43-18x} = 0$ | 25. $10x - 3 - \sqrt{40x^3+9} = 0$ |

15. Resuelve la ecuación:

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|----------------------------------|----------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. $6 - \sqrt{32-7x^2} = x^2$ | 2. $7 - \sqrt{45-9x^2} = x^2$ | 3. $2x^2 - 3 = \sqrt{5x^2+5}$ | 4. $5 - 2x^2 = \sqrt{16-7x^2}$ | 5. $\sqrt{55-6x^2} + 8 = x^2$ |
| 6. $\sqrt{40-4x^2} + 7 = x^2$ | 7. $2x^4 - 4 = \sqrt{9x^2-20}$ | 8. $2x^4 - \sqrt{21x^2+7} = 4$ | 9. $3x^3 - 3 = \sqrt{22x^2-7}$ | 10. $x^2 - \sqrt{6x^2-5} - 2 = 0$ |
| 11. $4 - \sqrt{15-11x^2} = 2x^2$ | 12. $2x^2 - \sqrt{45-11x^2} = 7$ | 13. $9 - 2x^2 = \sqrt{45-11x^2}$ | 14. $2x^2 - 1 = \sqrt{21x^2-35}$ | 15. $8 - \sqrt{55-19x^2} = 2x^2$ |
| 16. $2x^2 - 2 = \sqrt{17x^2-32}$ | 17. $6 - 2x^2 = \sqrt{35-19x^2}$ | 18. $9 - x^2 - \sqrt{77-13x^2} = 0$ | 19. $\sqrt{40-15x^2} + 2x^2 = 7$ | 20. $7 - 3x^2 = \sqrt{45-29x^2}$ |
| 21. $4x^2 - \sqrt{55-24x^2} = 8$ | 22. $9 - 3x^2 = \sqrt{80-44x^2}$ | 23. $\sqrt{48-32x^2} + 3x^2 = 7$ | 24. $\sqrt{60-11x^2} + x^2 - 8 = 0$ | 25. $\sqrt{13x^2-3} - 2x^2 + 1 = 0$ |

16. Resuelve la ecuación:

- | | | | |
|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|
| 1. $\sqrt{6x+21} - \sqrt{3} = \sqrt{6x+12}$ | 2. $\sqrt{8x-6} - \sqrt{4x-10} = 2\sqrt{2}$ | 3. $\sqrt{3x+15} - \sqrt{3x-9} = 2\sqrt{3}$ | 4. $\sqrt{12x+23} - \sqrt{9x+9} = \sqrt{3}$ |
| 5. $\sqrt{9x+24} - \sqrt{3} = \sqrt{6x+10}$ | 6. $\sqrt{4x+14} + \sqrt{2} = \sqrt{4x+20}$ | 7. $\sqrt{8x+24} - \sqrt{4x+5} = 2\sqrt{2}$ | 8. $\sqrt{3x+2} + 2\sqrt{3} = \sqrt{9x+24}$ |
| 9. $\sqrt{6x+21} - \sqrt{3} = \sqrt{12x+21}$ | 10. $\sqrt{4x+4} - \sqrt{8x-6} - \sqrt{2} = 0$ | 11. $\sqrt{9x+21} \sqrt{6x+9} - \sqrt{3} = 0$ | 12. $\sqrt{12x+39} - \sqrt{9x+21} = \sqrt{3}$ |
| 13. $\sqrt{3x+21} - \sqrt{3} = \sqrt{12x+39}$ | 14. $\sqrt{8x+10} + \sqrt{2x+16} = 6\sqrt{2}$ | 15. $\sqrt{4x+34} - 2\sqrt{2} = \sqrt{4x+18}$ | 16. $\sqrt{12x+43} - \sqrt{3} = \sqrt{9x+24}$ |
| 17. $\sqrt{9x-6} - \sqrt{3x+9} + \sqrt{3} = 0$ | 18. $\sqrt{2x+3} - \sqrt{4x+10} + \sqrt{2} = 0$ | 19. $\sqrt{6x+18} - \sqrt{6x-6} - 2\sqrt{3} = 0$ | 20. $\sqrt{6x+15} - \sqrt{6x-1} - 2\sqrt{2} = 0$ |
| 21. $\sqrt{12x+19} - \sqrt{9x+6} - \sqrt{3} = 0$ | 22. $\sqrt{6x+20} - \sqrt{8x+18} - \sqrt{2} = 0$ | 23. $\sqrt{4x-2} - \sqrt{6x+12} + 2\sqrt{2} = 0$ | 24. $\sqrt{8x+10} - \sqrt{8x+20} + \sqrt{2} = 0$ |

17. Resuelve la ecuación:

- | | | |
|----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| 1. $\sqrt{2x+9} - \sqrt{8x+6} = \sqrt{2x+3}$ | 2. $\sqrt{8x+16} - \sqrt{4x+1} = \sqrt{4x+7}$ | 3. $\sqrt{9x-3} + \sqrt{3x+1} = \sqrt{12x+4}$ |
| 4. $\sqrt{2x+3} + \sqrt{2x+6} = \sqrt{2x+11}$ | 5. $\sqrt{6x+9} - \sqrt{6x-7} = 2\sqrt{4x-4}$ | 6. $\sqrt{2x+10} - \sqrt{4x+6} = \sqrt{2x+2}$ |
| 7. $\sqrt{4x+13} - \sqrt{2x+3} = \sqrt{4x+8}$ | 8. $\sqrt{12x+11} - \sqrt{9x-9} = \sqrt{3x+8}$ | 9. $\sqrt{4x+3} + \sqrt{4x+9} = \sqrt{8x+20}$ |
| 10. $\sqrt{2x+5} - \sqrt{x-1} - \sqrt{4x-4} = 0$ | 11. $\sqrt{x-1} + \sqrt{3x-2} - \sqrt{3x+3} = 0$ | 12. $\sqrt{2x+7} - \sqrt{x+3} - \sqrt{3x-2} = 0$ |
| 13. $2\sqrt{4x+13} - 3\sqrt{x+2} = \sqrt{x+10}$ | 14. $2\sqrt{4x+1} - \sqrt{4x-4} = 2\sqrt{3x-2}$ | 15. $\sqrt{9x+15} + \sqrt{6x+5} = \sqrt{9x+30}$ |
| 16. $\sqrt{8x+20} - 2\sqrt{4x+3} = \sqrt{8x+4}$ | 17. $2\sqrt{3x+7} - \sqrt{4x+8} = 2\sqrt{4x+5}$ | 18. $2\sqrt{2x+13} - 2\sqrt{x+6} = \sqrt{4x+12}$ |
| 19. $2\sqrt{x+8} + \sqrt{4x+20} = 2\sqrt{4x+25}$ | 20. $2\sqrt{6x+11} - \sqrt{4x+10} = 2\sqrt{2x+3}$ | 21. $2\sqrt{6x+21} - \sqrt{8x+12} = 2\sqrt{2x+9}$ |
| 22. $3\sqrt{x+8} - \sqrt{3x+6} - 3\sqrt{2x+2} = 0$ | 23. $\sqrt{3x+23} - \sqrt{12x-4} - \sqrt{3x-1} = 0$ | 24. $3\sqrt{4x+5} - \sqrt{3x+6} - 3\sqrt{3x+1} = 0$ |



— Soluciones —

- 1.1. 4 1.2. 3 1.3. 1 1.4. $\frac{1}{4}$ 1.5. $\frac{2}{3}$ 1.6. $\frac{-1}{2}$ 1.7. -3 1.8. $\frac{-1}{4}$ 1.9. -1 1.10. -2 1.11. $\frac{3}{4}$ 1.12. $\frac{-4}{3}$ 1.13. $\frac{1}{2}$ 1.14. -3 1.15. $\frac{-3}{4}$ 1.16. 1 1.17. $\frac{3}{4}$
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3.18. -2 3.19. -3 3.20. -2 3.21. $\frac{-1}{2}$ 3.22. $\frac{-1}{2}$ 3.23. $\frac{1}{2}$ 3.24. $\frac{-1}{2}$ 3.25. $\frac{1}{2}$ 4.1. -4 4.2. $\frac{-1}{2}$ 4.3. 1 4.4. $\frac{1}{2}$ 4.5. 1 4.6. 2 4.7. $\frac{1}{3}$ 4.8. 1 4.9. -4
4.10. -4 4.11. $\frac{-3}{2}$ 4.12. -2 4.13. $\frac{-2}{3}$ 4.14. $\frac{-4}{3}$ 4.15. -1 4.16. $\frac{-1}{2}$ 4.17. -2 4.18. $\frac{3}{4}$ 4.19. 1 4.20. -4 4.21. $\frac{-4}{3}$ 4.22. $\frac{-1}{4}$ 4.23. $\frac{1}{2}$ 4.24. $\frac{4}{3}$ 4.25. $\frac{2}{3}$
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