- 5 -

ЗАДАНИЯ ДЛЯ САМОПРОВЕРКИ

Укажите методы решения данных уравнений**.**

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| --- | --- |
| 1. **х (х + 1) (х2 + х + 1) = 6** 2. **2х4 + 3х3 – 24х2 – 3х + 2 = 0** 3. **(х – 1)4 + 9(х + 1)4 = 10(х2 – 1)2** 4. **(х – 2)(х + 1)(х + 4)(х + 7) = 63** 5. **+ = 1** 6. **х4 + 4х3 + 3х2 + 2х – 1 = 0** 7. **х3 + 7х2 – 56х + 48 = 0** 8. **х4 + 3х3 – 5х2 – 13х + 6 = 0** 9. **(х + 3)4 + (х + 5)4 = 16** 10. **+ = +** 11. **х3 – (√2 + 1)х2 + 2 = 0** 12. **(х – 1)5 + (х + 3)5 = 242 (х + 1)** 13. **х3 – 5х2 – 2х + 16 = 0**      1. **1 + \_\_1 \_\_ = 10**   **х2 (х + 2)2 9**   1. **(х2 – 16)(х – 3)2 + 9х2 = 0** 2. **=** 3. **4(х + 5)(х + 6)(х + 10)(х + 12) = 3х2** 4. **6х4 + 19х3 – 17х2 – 26х + 12 = 0** 5. **4х3 + 12х2 + 11х + 3 = 0** 6. **+ = -** 7. **(х2 + 2х)2 – (х + 2)(2х2 – х) = 6(2х – 1)2** 8. **12х4 – 16х3 – 11х2 – 16х +12= 0** 9. **- =** 10. **- 4 = 0** 11. **(х2 - 5х + 4)(х2 – 5х + 6) = 120** 12. **(х2 – х)2 – х2 + х – 2 = 0** 13. **6х4 – 5х3 – 38х2 – 5х + 6 = 0** 14. **х4 + 2х3 – 13х2 – 38х – 24 = 0** 15. **х4 + 27х2 – 14х + 120 = 0** 16. **4х4 + 8х3 –х2 – 8х – 3 = 0** 17. **х2 + = 8** 18. **(6 – х)4 + (8 – х)4 = 16** 19. **+ = + + 6** 20. **х4 – 8х3 + 15х2 + 4х – 20 = 0** 21. **х4 – 9х3 + 9х2 + 41х – 42 = 0** 22. **21х3 + 80х2 + 53х + 6 = 0** 23. **(х + 2)(х + 3)(х + 8)(х + 12) = 4х2** 24. **(х2 + х + 1)2 – 3х2 – 3х – 1 = 0** 25. **х4 – 10х3 + 35х2 – 50х + 24 =0** |  |