

9/3 на 19.11.24.

Схема Горнера. Метод Бэру.

1. $x^3 - 2x^2 - 2x - 3 = 0$; $3x^4 + x^3 - 32x^2 - 3x + 27 = 0$
 $2x^3 - 5x^2 + 2x + 1 = 0$;
 $x^4 + 2x^3 - 2x^2 - 3x + 2 = 0$;

2.

1. $c' = 0, c = \text{const}$

2. $(x^n)' = nx^{n-1}$

3. $(a^x)' = a^x \cdot \ln a$

4. $(e^x)' = e^x$

5. $(\log_a x)' = \frac{1}{x \ln a}$

6. $(\ln x)' = \frac{1}{x}$

7. $(\sin x)' = \cos x$

8. $(\cos x)' = -\sin x$

9. $(\sqrt{x})' = \frac{1}{2\sqrt{x}}$

10. $(\operatorname{tg} x)' = \frac{1}{\cos^2 x}$

11. $(\operatorname{ctg} x)' = -\frac{1}{\sin^2 x}$

12. $(\arcsin x)' = \frac{1}{\sqrt{1-x^2}}$

13. $(\arccos x)' = -\frac{1}{\sqrt{1-x^2}}$

14. $(\operatorname{arctg} x)' = \frac{1}{1+x^2}$

15. $(\operatorname{arcctg} x)' = -\frac{1}{1+x^2}$

16. $(\operatorname{sh} x)' = \operatorname{ch} x$

17. $(\operatorname{ch} x)' = \operatorname{sh} x$

18. $(\operatorname{th} x)' = \frac{1}{\operatorname{ch}^2 x}$

19. $(\operatorname{th} x)' = -\frac{1}{\operatorname{sh}^2 x}$

выучить

