* 1. **Таблица извода елементарних функција**

|  |  |  |  |
| --- | --- | --- | --- |
|  | *f*(x) | *f'*(x) | УСЛОВИ |
| 1. | *const* | 0 |  |
| 2. | xn | n \* xn-1 | x > 0, x ∈ ℝ |
|  | = x1/2 |  | x > 0 |
| 3. | ax | ax \* ln(a) | a > 0, a ≠ 1, x ∈ ℝ |
|  | ex | ex |  |
| 4. | logax |  | a > 0, a ≠ 1, x > 0 |
|  | ln(x) |  | x > 0 |
| 5. | sin(x) | cos(x) | x ∈ ℝ |
| 6. | cos(x) | - sin(x) | x ∈ ℝ |
| 7. | tg(x) |  | x ≠ |
| 8. | ctg(x) |  | x ≠ |
| 9. | arcsin(x) |  | x ∈ (-1,1) |
| 10. | arccos(x) |  | x ∈ (-1,1) |
| 11. | arctg(x) |  | x ∈ ℝ |
| 12. | arcctg(x) |  | x ∈ ℝ |