**ЛБ 1 – Программирование математических выражений**

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| **№** | **Выражение** | **Ответы** |
| ***1*** | y:= exp(ln(sqr(sqr(x + 2)) + sin(x))/5) + sqrt(ln(x + sqr(x) / 2) / ln(10)) + 5.8e-7 \* x; | |  |  | | --- | --- | | x | y | | 1 | 2,83284 | | 2 | 3,80951 | | 3 | 4,559511 | |
| ***2*** | y:= sqrt(sqr(x) + sin(1 / (4 \* x)))/(ln(3 \* x) + x) + 4e-5 | |  |  | | --- | --- | | x | y | | 1 | 0,532236 | | 2 | 0,535657 | | 3 | 0,579934 | |
| ***3*** | y:= 7.2e-4 \* sqrt(abs(1 - sqr(sin(x)))) / exp(-4 / x); | |  |  | | --- | --- | | x | y | | 1 | 0,02124 | | 2 | 0,002214 | | 3 | 0,002704 | |
| ***4*** | y:= (1 - 2 \* x \* sin(x)) / ln(5 / x) + exp(sqr(x)) | |  |  | | --- | --- | | x | y | | 1 | 2,293946 | | 2 | 51,72004 | | 3 | 8103,384 | |
| ***5*** | y:= sin(sqr(x)) / (exp(x / 2) \* ln( x + 1)) + 2.3e-7 | |  |  | | --- | --- | | x | y | | 1 | 0,73632 | | 2 | -0,25342 | | 3 | 0,066333 | |
| ***6*** | y:= ln(sqr(x) + sqr(cos(x))) / sqrt(abs(2 \* sqr(x) - 4.2e3)) | |  |  | | --- | --- | | x | y | | 1 | 0,003953 | | 2 | 0,022066 | | 3 | 0,035575 | |
| ***7*** | y:= sqr(arctan(sqrt(x) - 2.7e-3)) + exp(-x) / cos(x) | |  |  | | --- | --- | | x | y | | 1 | 1,295606 | | 2 | 0,585698 | | 3 | 1,044917 | |
| ***8*** | y:= x / (sin(x) + 1) / ((exp(sqr(x)) + ln(x)) / sqrt(sqr(x) + 3.7e-5 \* x)) | |  |  | | --- | --- | | x | y | | 1 | 0,199778 | | 2 | 0,037891 | | 3 | 0,000973 | |
| ***9*** | y:= (4.9e-2 + ln(sqr(x) / 2)) / arctan(sqr(x) + 2 \* x) | |  |  | | --- | --- | | x | y | | 1 | -0,51571 | | 2 | 0,513085 | | 3 | 1,032475 | |
| ***10*** | y:= sqrt(sqr(x) + cos(1 / (3 \* x))) / (8.2e-2 + sqr(sin(x))) | |  |  | | --- | --- | | x | y | | 1 | 1,765174 | | 2 | 2,456991 | | 3 | 31,01905 | |