**1 вариант**

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| **В добрый****путь!** | **log a а=** |

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| **1** | **loga**$\sqrt[n]{x}$**=** |

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| $\frac{1}{n}$**logax** | **logaxy=** |

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| --- | --- |
| **logax+logay** | **loga1=** |

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| **0** | **logab=** |
| $\frac{log\_{c}b}{log\_{c}a}$ | **logax-logay=** |

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| **loga**$\frac{x}{y}$ | **loga** $\frac{1}{x}$**=**  |

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| * **logax**
 | **loga** $x^{n}$**=**  |

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| --- | --- |
| $n $**logax** | **log3**$\frac{1}{81}$**=**  |

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| * **4**
 | **lg1000** |

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| **3**  | **log0,532 =**  |

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| * **5**
 | **log0,40,064=**  |

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| **3**  | $3^{2log\_{3}4}$ **=** |

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| **16**  | **log5x = 2** **x-?** |

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| **X = 25** | **Молодец!** |

**2 вариант**

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| **В добрый****путь!** | **log a 1=** |

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| **0** | **loga**$x^{n}$**=** |

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| --- | --- |
| **nlogax** | **loga**$\frac{x}{y}$**=** |

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| --- | --- |
| **logax-logay** | **logaa=** |

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| --- | --- |
| **1** | **logab=** |
| $\frac{log\_{c}b}{log\_{c}a}$ | **logax+logay=** |

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| --- | --- |
| **logaxy**  | **loga** $\frac{1}{x}$**=**  |

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| --- | --- |
| * **logax**
 | **loga** $\sqrt[n]{x}$**=**  |

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| --- | --- |
| $\frac{1}{n} $**logax** | **log4**$\frac{1}{64}$**=**  |

|  |  |
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| * **3**
 | **lg0,01** |

|  |  |
| --- | --- |
| * **2**
 | **log2 128 =**  |

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| --- | --- |
| **7** | **log0,30,27=**  |

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| --- | --- |
| **3**  | $5^{2log\_{5}3}$ **=** |

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| **9**  | **log4x = 2** **x-?** |

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| **X = 16** | **Молодец!** |