**Софизм 0=1**

**Что такое софизм.**

Софизмом называется утверждение, обосновывающее заведомую нелепость, противоречащую общепринятым взглядам. В доказательствах при этом содержатся ошибки, которые зачастую обнаружить непросто. Я приведу софизм, который гласит, что 0=1.

**Метод возведения в степень**

Следует обратить внимание, что [https://2.bp.blogspot.com/-FHbCYZrqINE/V3OMO_uQ3bI/AAAAAAAAAYI/AUJJkdRMn2UpFbH0LucYGH7nnWTh1FKaACLcB/s1600/c8e732979da306def404ec148961595e.png](https://2.bp.blogspot.com/-FHbCYZrqINE/V3OMO_uQ3bI/AAAAAAAAAYI/AUJJkdRMn2UpFbH0LucYGH7nnWTh1FKaACLcB/s1600/c8e732979da306def404ec148961595e.png)(1), однако [https://4.bp.blogspot.com/-IOxNq_nPLZs/V3OQQQ9enCI/AAAAAAAAAYo/fJG-nMJN95IRa7gucuZVS9dB91S4b2zggCLcB/s1600/07ab7c2444c00acc6d5b7e20a369a51d.png](https://4.bp.blogspot.com/-IOxNq_nPLZs/V3OQQQ9enCI/AAAAAAAAAYo/fJG-nMJN95IRa7gucuZVS9dB91S4b2zggCLcB/s1600/07ab7c2444c00acc6d5b7e20a369a51d.png). Подставим[https://1.bp.blogspot.com/-i6DmBPAxLyI/V3OQ5yWeY_I/AAAAAAAAAZA/mE7UmemCbiwxadzlQl2hhdKINhg14emAwCLcB/s1600/ded681eaa02d11064c9a469dd1b3e04c.png](https://1.bp.blogspot.com/-i6DmBPAxLyI/V3OQ5yWeY_I/AAAAAAAAAZA/mE7UmemCbiwxadzlQl2hhdKINhg14emAwCLcB/s1600/ded681eaa02d11064c9a469dd1b3e04c.png).Следовательно формуле(2), [https://1.bp.blogspot.com/-ZlSGpCmdZcY/V3ORhzKMbDI/AAAAAAAAAZM/cfCkn7Gh6c8sn1QggqqsR3bI82vlb2IQgCLcB/s1600/0228b00c0c83ba458ded87a9c2b83810.png](https://1.bp.blogspot.com/-ZlSGpCmdZcY/V3ORhzKMbDI/AAAAAAAAAZM/cfCkn7Gh6c8sn1QggqqsR3bI82vlb2IQgCLcB/s1600/0228b00c0c83ba458ded87a9c2b83810.png),но, исходя из формулы(1), [https://2.bp.blogspot.com/-RGd7b3HuMec/V3ORxf5yL_I/AAAAAAAAAZU/Vb6YargZHvAQU_4uyBMNM2i-NH39pstvQCLcB/s1600/8a60e0233a5a22d249752b2815a42631.png](https://2.bp.blogspot.com/-RGd7b3HuMec/V3ORxf5yL_I/AAAAAAAAAZU/Vb6YargZHvAQU_4uyBMNM2i-NH39pstvQCLcB/s1600/8a60e0233a5a22d249752b2815a42631.png). Таким образом, [https://3.bp.blogspot.com/-fz15sXxLQfo/V3OR-KUfjfI/AAAAAAAAAZc/6H0Y8z_yWy4Sd63Eg4vNbYnAF9WwtpKBQCLcB/s1600/d944267ac25276f12cb03fc698810d94.png](https://3.bp.blogspot.com/-fz15sXxLQfo/V3OR-KUfjfI/AAAAAAAAAZc/6H0Y8z_yWy4Sd63Eg4vNbYnAF9WwtpKBQCLcB/s1600/d944267ac25276f12cb03fc698810d94.png), что и требовалось доказать.

**Ошибка**

Ошибка заключается в том, что при[https://1.bp.blogspot.com/-i6DmBPAxLyI/V3OQ5yWeY_I/AAAAAAAAAZA/mE7UmemCbiwxadzlQl2hhdKINhg14emAwCLcB/s1600/ded681eaa02d11064c9a469dd1b3e04c.png](https://1.bp.blogspot.com/-i6DmBPAxLyI/V3OQ5yWeY_I/AAAAAAAAAZA/mE7UmemCbiwxadzlQl2hhdKINhg14emAwCLcB/s1600/ded681eaa02d11064c9a469dd1b3e04c.png) формулы[https://2.bp.blogspot.com/-FHbCYZrqINE/V3OMO_uQ3bI/AAAAAAAAAYI/AUJJkdRMn2UpFbH0LucYGH7nnWTh1FKaACLcB/s1600/c8e732979da306def404ec148961595e.png](https://2.bp.blogspot.com/-FHbCYZrqINE/V3OMO_uQ3bI/AAAAAAAAAYI/AUJJkdRMn2UpFbH0LucYGH7nnWTh1FKaACLcB/s1600/c8e732979da306def404ec148961595e.png) и[https://3.bp.blogspot.com/--xc5bbethNM/V3Pgt5RtU4I/AAAAAAAAAbE/aohYm8i6JvEG-5uriVQxAwdYOUPhpnfiQCLcB/s1600/07ab7c2444c00acc6d5b7e20a369a51d.png](https://3.bp.blogspot.com/--xc5bbethNM/V3Pgt5RtU4I/AAAAAAAAAbE/aohYm8i6JvEG-5uriVQxAwdYOUPhpnfiQCLcB/s1600/07ab7c2444c00acc6d5b7e20a369a51d.png)не имеют смысла.

**Метод составления уравнения**

Возьмём [https://2.bp.blogspot.com/-L9-t7KViNd8/V3PeIeWlqyI/AAAAAAAAAaA/XIUizptgFwAtolvUMtNqtLKnhJZp3hgPACKgB/s1600/a255512f9d61a6777bd5a304235bd26d.png](https://2.bp.blogspot.com/-L9-t7KViNd8/V3PeIeWlqyI/AAAAAAAAAaA/XIUizptgFwAtolvUMtNqtLKnhJZp3hgPACKgB/s1600/a255512f9d61a6777bd5a304235bd26d.png). Это то же самое, что и[https://2.bp.blogspot.com/-dUxqLtbWS5M/V3PeXzXl3sI/AAAAAAAAAaI/z9i2UyZkk2c_hft5zk9Q1ZJqJFeFHErHQCKgB/s1600/81bc97418cd3993fe70fb119310fca93.png](https://2.bp.blogspot.com/-dUxqLtbWS5M/V3PeXzXl3sI/AAAAAAAAAaI/z9i2UyZkk2c_hft5zk9Q1ZJqJFeFHErHQCKgB/s1600/81bc97418cd3993fe70fb119310fca93.png). Добавим [https://2.bp.blogspot.com/-Ukdbkel8TZU/V3PfC3M_JDI/AAAAAAAAAaU/XecPUb86FLcYEfRivvpxZP6I74p-3ogHQCLcB/s1600/9dd4e461268c8034f5c8564e155c67a6.png](https://2.bp.blogspot.com/-Ukdbkel8TZU/V3PfC3M_JDI/AAAAAAAAAaU/XecPUb86FLcYEfRivvpxZP6I74p-3ogHQCLcB/s1600/9dd4e461268c8034f5c8564e155c67a6.png), получим [https://2.bp.blogspot.com/-KoGTTvhZb_k/V3PfSUU-j5I/AAAAAAAAAac/i1lAS3gwt40_GYq0XvEyVEuGjQnChFO2QCLcB/s1600/462cf605558780da5c586dd0dc0afcf6.png](https://2.bp.blogspot.com/-KoGTTvhZb_k/V3PfSUU-j5I/AAAAAAAAAac/i1lAS3gwt40_GYq0XvEyVEuGjQnChFO2QCLcB/s1600/462cf605558780da5c586dd0dc0afcf6.png).  Вычитаем единицу:[https://1.bp.blogspot.com/--XKCx5cJeAc/V3Pfod-U-gI/AAAAAAAAAak/T7qsZiOBkgYnRGtjwircqnplv53XjExRACLcB/s1600/e1e348309d517482f6d12de63d3e15af.png](https://1.bp.blogspot.com/--XKCx5cJeAc/V3Pfod-U-gI/AAAAAAAAAak/T7qsZiOBkgYnRGtjwircqnplv53XjExRACLcB/s1600/e1e348309d517482f6d12de63d3e15af.png). Выносим общий множитель за скобку:[https://1.bp.blogspot.com/-RPYazGMfBIs/V3Pf9A5zIBI/AAAAAAAAAaw/f9RGMqNQyzoFEOekQsswURm6_f3DEHNpQCLcB/s1600/404150d7a65bd6a847b3e6079ac093d9.png](https://1.bp.blogspot.com/-RPYazGMfBIs/V3Pf9A5zIBI/AAAAAAAAAaw/f9RGMqNQyzoFEOekQsswURm6_f3DEHNpQCLcB/s1600/404150d7a65bd6a847b3e6079ac093d9.png), и полученное выражение делим на[https://1.bp.blogspot.com/-ZO23CrdVx-s/V3PgKvj-nbI/AAAAAAAAAa4/zouz0JADPBIfQ5VEbvlYDzsqPjSHx-_nQCLcB/s1600/66506113b68a4a541e04ca99ae2f7b4f.png](https://1.bp.blogspot.com/-ZO23CrdVx-s/V3PgKvj-nbI/AAAAAAAAAa4/zouz0JADPBIfQ5VEbvlYDzsqPjSHx-_nQCLcB/s1600/66506113b68a4a541e04ca99ae2f7b4f.png).  Получаем:[https://1.bp.blogspot.com/-TSBgnH145Q0/V3PhaaLNUVI/AAAAAAAAAbY/RjQvn6OrO4MV1OHuksOR0A-2_aSvr5UsQCLcB/s1600/34dd10b05953a7005b357d6de4742ec3.png](https://1.bp.blogspot.com/-TSBgnH145Q0/V3PhaaLNUVI/AAAAAAAAAbY/RjQvn6OrO4MV1OHuksOR0A-2_aSvr5UsQCLcB/s1600/34dd10b05953a7005b357d6de4742ec3.png). Вычитая из этого равенства единицу, получаем искомое равенство:[https://2.bp.blogspot.com/-E-f06dvw0vQ/V3PhpwKr6lI/AAAAAAAAAbg/zqNNZSqo970YeJercYGLfw8H2EKPO7kjwCLcB/s1600/dabad6c75025a47d10e66faab96004a4.png](https://2.bp.blogspot.com/-E-f06dvw0vQ/V3PhpwKr6lI/AAAAAAAAAbg/zqNNZSqo970YeJercYGLfw8H2EKPO7kjwCLcB/s1600/dabad6c75025a47d10e66faab96004a4.png). Что и следовало доказать.

**Ошибка**

На [https://1.bp.blogspot.com/-ZO23CrdVx-s/V3PgKvj-nbI/AAAAAAAAAa4/zouz0JADPBIfQ5VEbvlYDzsqPjSHx-_nQCLcB/s1600/66506113b68a4a541e04ca99ae2f7b4f.png](https://1.bp.blogspot.com/-ZO23CrdVx-s/V3PgKvj-nbI/AAAAAAAAAa4/zouz0JADPBIfQ5VEbvlYDzsqPjSHx-_nQCLcB/s1600/66506113b68a4a541e04ca99ae2f7b4f.png) сокращать нельзя, так как[https://2.bp.blogspot.com/-dUxqLtbWS5M/V3PeXzXl3sI/AAAAAAAAAaI/z9i2UyZkk2c_hft5zk9Q1ZJqJFeFHErHQCKgB/s1600/81bc97418cd3993fe70fb119310fca93.png](https://2.bp.blogspot.com/-dUxqLtbWS5M/V3PeXzXl3sI/AAAAAAAAAaI/z9i2UyZkk2c_hft5zk9Q1ZJqJFeFHErHQCKgB/s1600/81bc97418cd3993fe70fb119310fca93.png), а на ноль делить нельзя.

**Метод сравнения**

Возьмём два произвольных положительных равных числа[https://4.bp.blogspot.com/-fcpuHd-RKIE/V3P9DO7J4mI/AAAAAAAAAb0/C0nXW8JF304wafxSZT-gro0EDOteegIOgCLcB/s1600/0cc175b9c0f1b6a831c399e269772661%2B%25281%2529.png](https://4.bp.blogspot.com/-fcpuHd-RKIE/V3P9DO7J4mI/AAAAAAAAAb0/C0nXW8JF304wafxSZT-gro0EDOteegIOgCLcB/s1600/0cc175b9c0f1b6a831c399e269772661%2B%25281%2529.png)и[https://4.bp.blogspot.com/-Bcol90-O-rw/V3P9NiHCtNI/AAAAAAAAAb8/ashKifTBD-QNxJK1i6cNebn2unlslE2KgCLcB/s1600/92eb5ffee6ae2fec3ad71c777531578f.png](https://4.bp.blogspot.com/-Bcol90-O-rw/V3P9NiHCtNI/AAAAAAAAAb8/ashKifTBD-QNxJK1i6cNebn2unlslE2KgCLcB/s1600/92eb5ffee6ae2fec3ad71c777531578f.png) и напишем для них следующие очевидные нестрогие неравенства:[https://4.bp.blogspot.com/-FNXsDhZswYE/V3P9lJJ8iwI/AAAAAAAAAcE/ll8rbgrWRQElU_Jb1X9_scX8106zB3-kgCLcB/s1600/15bc1880e423b7d3d41512c9ee1921c5.png](https://4.bp.blogspot.com/-FNXsDhZswYE/V3P9lJJ8iwI/AAAAAAAAAcE/ll8rbgrWRQElU_Jb1X9_scX8106zB3-kgCLcB/s1600/15bc1880e423b7d3d41512c9ee1921c5.png),[https://4.bp.blogspot.com/-G90wrWMWCRU/V3P9uEFmiuI/AAAAAAAAAcM/TMT8HZJ7pdsNGvt9VAF6ja_5Y_6dzThxACLcB/s1600/cc1ba1ae42952d0adee0821cd9c78968.png](https://4.bp.blogspot.com/-G90wrWMWCRU/V3P9uEFmiuI/AAAAAAAAAcM/TMT8HZJ7pdsNGvt9VAF6ja_5Y_6dzThxACLcB/s1600/cc1ba1ae42952d0adee0821cd9c78968.png). Перемножив оба эти неравенства почленно, получим неравенство [https://4.bp.blogspot.com/-MWjpRYMatjk/V3QBEDOZw2I/AAAAAAAAAcc/yM5rrA7Z4iINdrNrb_JlvNxfZ-gAsJIEwCLcB/s1600/a36fb4e79d00cc921d8c5c03bdd435f6.png](https://4.bp.blogspot.com/-MWjpRYMatjk/V3QBEDOZw2I/AAAAAAAAAcc/yM5rrA7Z4iINdrNrb_JlvNxfZ-gAsJIEwCLcB/s1600/a36fb4e79d00cc921d8c5c03bdd435f6.png), а после его деления на[https://4.bp.blogspot.com/-Bcol90-O-rw/V3P9NiHCtNI/AAAAAAAAAb8/ashKifTBD-QNxJK1i6cNebn2unlslE2KgCLcB/s1600/92eb5ffee6ae2fec3ad71c777531578f.png](https://4.bp.blogspot.com/-Bcol90-O-rw/V3P9NiHCtNI/AAAAAAAAAb8/ashKifTBD-QNxJK1i6cNebn2unlslE2KgCLcB/s1600/92eb5ffee6ae2fec3ad71c777531578f.png), что вполне законно, так как по условию[https://4.bp.blogspot.com/-0xAbBjTdW0g/V3QBogd-dtI/AAAAAAAAAck/m1uqRuevEW4XhvCJAM5-r8IYiw6UqFN8ACLcB/s1600/539fa66a54d60fdbd6278ccebed13ddd.png](https://4.bp.blogspot.com/-0xAbBjTdW0g/V3QBogd-dtI/AAAAAAAAAck/m1uqRuevEW4XhvCJAM5-r8IYiw6UqFN8ACLcB/s1600/539fa66a54d60fdbd6278ccebed13ddd.png), прийдём к выводу, что[https://1.bp.blogspot.com/-aV4mKn9WTaI/V3QCa_byM0I/AAAAAAAAAcw/N05aG31pGZQXoQSGadYDKs2vAk-1cd8RQCLcB/s1600/edf54efd8e6c13aa1b6cae8c741185a8.png](https://1.bp.blogspot.com/-aV4mKn9WTaI/V3QCa_byM0I/AAAAAAAAAcw/N05aG31pGZQXoQSGadYDKs2vAk-1cd8RQCLcB/s1600/edf54efd8e6c13aa1b6cae8c741185a8.png).  
  
Запишем два других столь же бесспорных неравенства[https://1.bp.blogspot.com/-2ojrB7eP1Is/V3QDacKVS2I/AAAAAAAAAdE/YrdK_4oaPAAJ05xA1R8gEUwNvXi0p6KfgCLcB/s1600/2b5cf72584f61f7cd99a196075f23e7c.png](https://1.bp.blogspot.com/-2ojrB7eP1Is/V3QDacKVS2I/AAAAAAAAAdE/YrdK_4oaPAAJ05xA1R8gEUwNvXi0p6KfgCLcB/s1600/2b5cf72584f61f7cd99a196075f23e7c.png),[https://4.bp.blogspot.com/-dU2qqGfTxjc/V3QDgl1sWEI/AAAAAAAAAdM/bzPWXOx7oMgBAnTPWNlyL_p-9BooV4r_gCLcB/s1600/46349f1cb11ce9305a4d9f9f1f2facb1.png](https://4.bp.blogspot.com/-dU2qqGfTxjc/V3QDgl1sWEI/AAAAAAAAAdM/bzPWXOx7oMgBAnTPWNlyL_p-9BooV4r_gCLcB/s1600/46349f1cb11ce9305a4d9f9f1f2facb1.png). Действуя аналогично предыдущему методу, получим, что[https://4.bp.blogspot.com/-XFAYsBD5jGM/V3QD0E2NVAI/AAAAAAAAAdU/JwnbG9wmQzsaLdq6nAH7-puQb5YnyFVWQCLcB/s1600/692cdd8b2ec0cd33bcf95908370bd057.png](https://4.bp.blogspot.com/-XFAYsBD5jGM/V3QD0E2NVAI/AAAAAAAAAdU/JwnbG9wmQzsaLdq6nAH7-puQb5YnyFVWQCLcB/s1600/692cdd8b2ec0cd33bcf95908370bd057.png), а разделив его на[https://3.bp.blogspot.com/-iO0Sd9rEQxc/V3QD8r84QPI/AAAAAAAAAdg/6oi4uaVROpkUhkm5hTmXp7XB0dgFNZPFQCLcB/s1600/0cc175b9c0f1b6a831c399e269772661%2B%25281%2529.png](https://3.bp.blogspot.com/-iO0Sd9rEQxc/V3QD8r84QPI/AAAAAAAAAdg/6oi4uaVROpkUhkm5hTmXp7XB0dgFNZPFQCLcB/s1600/0cc175b9c0f1b6a831c399e269772661%2B%25281%2529.png)(так как[https://3.bp.blogspot.com/-mLfwJzrVYrw/V3QELCiYSoI/AAAAAAAAAdo/HHjxcPFMRSUFakYeOZm6BQ7v6-olYhp0QCLcB/s1600/323c5f97105643bc61e288fe596194ca.png](https://3.bp.blogspot.com/-mLfwJzrVYrw/V3QELCiYSoI/AAAAAAAAAdo/HHjxcPFMRSUFakYeOZm6BQ7v6-olYhp0QCLcB/s1600/323c5f97105643bc61e288fe596194ca.png)), прийдём к неравенству[https://2.bp.blogspot.com/-RhlRBaE2Nj0/V3QEXZxbHdI/AAAAAAAAAdw/GffcCH2K7fY97NWBenQzTJnx19-x32cXgCLcB/s1600/37edeae14ff3db2d9bd0c72aae90101c.png](https://2.bp.blogspot.com/-RhlRBaE2Nj0/V3QEXZxbHdI/AAAAAAAAAdw/GffcCH2K7fY97NWBenQzTJnx19-x32cXgCLcB/s1600/37edeae14ff3db2d9bd0c72aae90101c.png).  
  
Итак,[https://3.bp.blogspot.com/-SuyqJ1I0lNk/V3QEik479aI/AAAAAAAAAd4/khyZPaUzXSIdYzYsmI-Y_y9vk3jUAYw4ACLcB/s1600/1c4cb2ba8a727f590d20944a114e8f6d.png](https://3.bp.blogspot.com/-SuyqJ1I0lNk/V3QEik479aI/AAAAAAAAAd4/khyZPaUzXSIdYzYsmI-Y_y9vk3jUAYw4ACLcB/s1600/1c4cb2ba8a727f590d20944a114e8f6d.png), что возможно только при[https://4.bp.blogspot.com/-SnCEp-qt2sM/V3QEsU8bo7I/AAAAAAAAAeA/b5FH3IHQ3xME4z5JlEWM_ttF3XfQLfZcgCLcB/s1600/7acaac15494e6820b1ed6d8b539af089.png](https://4.bp.blogspot.com/-SnCEp-qt2sM/V3QEsU8bo7I/AAAAAAAAAeA/b5FH3IHQ3xME4z5JlEWM_ttF3XfQLfZcgCLcB/s1600/7acaac15494e6820b1ed6d8b539af089.png). Если[https://4.bp.blogspot.com/-bojJIFh9oxQ/V3QE4m8oFcI/AAAAAAAAAeI/hqbvvQaSrWkE0rYWtIE2GbBkfQ0zr-LmQCLcB/s1600/3c9d2347726735da8c5c1ed9a44f5759.png](https://4.bp.blogspot.com/-bojJIFh9oxQ/V3QE4m8oFcI/AAAAAAAAAeI/hqbvvQaSrWkE0rYWtIE2GbBkfQ0zr-LmQCLcB/s1600/3c9d2347726735da8c5c1ed9a44f5759.png),[https://2.bp.blogspot.com/-8q5uT7nHXOI/V3QFAaRpUUI/AAAAAAAAAeQ/03dfhE4VskIrrZYmbYv3LfESvsFyUg98wCLcB/s1600/f1e5d335f8f4bde5006a29e447072a3e.png](https://2.bp.blogspot.com/-8q5uT7nHXOI/V3QFAaRpUUI/AAAAAAAAAeQ/03dfhE4VskIrrZYmbYv3LfESvsFyUg98wCLcB/s1600/f1e5d335f8f4bde5006a29e447072a3e.png), то получим, что[https://1.bp.blogspot.com/-cD-mwBfpIss/V3QFP5pgg8I/AAAAAAAAAec/9tDlvmru2c4zhYFlSf6JT3S3UyUXZ11BACLcB/s1600/8e880dcb363ba704357af7d334c30fa5.png](https://1.bp.blogspot.com/-cD-mwBfpIss/V3QFP5pgg8I/AAAAAAAAAec/9tDlvmru2c4zhYFlSf6JT3S3UyUXZ11BACLcB/s1600/8e880dcb363ba704357af7d334c30fa5.png),откуда, отняв от обеих частей равенства 4, получим[https://2.bp.blogspot.com/-fz15sXxLQfo/V3OR-KUfjfI/AAAAAAAAAZo/fBQkXQFy4igY5VMg2gMA_e4OxM3KezlwQCKgB/s1600/d944267ac25276f12cb03fc698810d94.png](https://2.bp.blogspot.com/-fz15sXxLQfo/V3OR-KUfjfI/AAAAAAAAAZo/fBQkXQFy4igY5VMg2gMA_e4OxM3KezlwQCKgB/s1600/d944267ac25276f12cb03fc698810d94.png).

**Ошибка**

Умножение неравенств [https://4.bp.blogspot.com/-FNXsDhZswYE/V3P9lJJ8iwI/AAAAAAAAAcE/ll8rbgrWRQElU_Jb1X9_scX8106zB3-kgCLcB/s1600/15bc1880e423b7d3d41512c9ee1921c5.png](https://4.bp.blogspot.com/-FNXsDhZswYE/V3P9lJJ8iwI/AAAAAAAAAcE/ll8rbgrWRQElU_Jb1X9_scX8106zB3-kgCLcB/s1600/15bc1880e423b7d3d41512c9ee1921c5.png) и[https://4.bp.blogspot.com/-G90wrWMWCRU/V3P9uEFmiuI/AAAAAAAAAcM/TMT8HZJ7pdsNGvt9VAF6ja_5Y_6dzThxACLcB/s1600/cc1ba1ae42952d0adee0821cd9c78968.png](https://4.bp.blogspot.com/-G90wrWMWCRU/V3P9uEFmiuI/AAAAAAAAAcM/TMT8HZJ7pdsNGvt9VAF6ja_5Y_6dzThxACLcB/s1600/cc1ba1ae42952d0adee0821cd9c78968.png),[https://1.bp.blogspot.com/-2ojrB7eP1Is/V3QDacKVS2I/AAAAAAAAAdE/YrdK_4oaPAAJ05xA1R8gEUwNvXi0p6KfgCLcB/s1600/2b5cf72584f61f7cd99a196075f23e7c.png](https://1.bp.blogspot.com/-2ojrB7eP1Is/V3QDacKVS2I/AAAAAAAAAdE/YrdK_4oaPAAJ05xA1R8gEUwNvXi0p6KfgCLcB/s1600/2b5cf72584f61f7cd99a196075f23e7c.png)и[https://4.bp.blogspot.com/-dU2qqGfTxjc/V3QDgl1sWEI/AAAAAAAAAdM/bzPWXOx7oMgBAnTPWNlyL_p-9BooV4r_gCLcB/s1600/46349f1cb11ce9305a4d9f9f1f2facb1.png](https://4.bp.blogspot.com/-dU2qqGfTxjc/V3QDgl1sWEI/AAAAAAAAAdM/bzPWXOx7oMgBAnTPWNlyL_p-9BooV4r_gCLcB/s1600/46349f1cb11ce9305a4d9f9f1f2facb1.png) недопустимо, так как в них есть отрицательные члены, а перемножать можно только неравенства одинакового знака с положительными членами.

**Метод обобщённых цепных дробей**

Мы знаем, что[https://4.bp.blogspot.com/-DIbmCx2LOTA/V3S-i_ciwBI/AAAAAAAAAe4/OI3J6f2k07kf5UeQdn6AZtR2fQI5Y7-fQCLcB/s1600/8ea053581b659009dbb18846deb89c22.png](https://4.bp.blogspot.com/-DIbmCx2LOTA/V3S-i_ciwBI/AAAAAAAAAe4/OI3J6f2k07kf5UeQdn6AZtR2fQI5Y7-fQCLcB/s1600/8ea053581b659009dbb18846deb89c22.png). Заменим 1 в знаменателе на правую часть данного равенства и повторим так бесконечное число раз:[https://3.bp.blogspot.com/-sF8qhd_i77k/V3S-2vAjdhI/AAAAAAAAAfA/Ft34DfCr8lQMfQb57QYhf9Ds_vxNMdxNwCLcB/s1600/398739930f68219e5d0e7290c511cd89.png](https://3.bp.blogspot.com/-sF8qhd_i77k/V3S-2vAjdhI/AAAAAAAAAfA/Ft34DfCr8lQMfQb57QYhf9Ds_vxNMdxNwCLcB/s1600/398739930f68219e5d0e7290c511cd89.png).

Но проделав то же самое с равенством[https://1.bp.blogspot.com/-s9OvfzEMsC0/V3S_CsElSjI/AAAAAAAAAfI/lRoB30iyYLA3p05PzZL8H0kkup-sdfgKwCLcB/s1600/0f669025cb625517910d92e999b189cf.png](https://1.bp.blogspot.com/-s9OvfzEMsC0/V3S_CsElSjI/AAAAAAAAAfI/lRoB30iyYLA3p05PzZL8H0kkup-sdfgKwCLcB/s1600/0f669025cb625517910d92e999b189cf.png), получим, что[https://2.bp.blogspot.com/-Vw-QLgZ8V3Y/V3S_L866fsI/AAAAAAAAAfU/3dBseK9KlWUzh-tn1rRr1JebPxd7pLGjACLcB/s1600/8f7cb9be5ebc8063f4d1f9cb16b8917d.png](https://2.bp.blogspot.com/-Vw-QLgZ8V3Y/V3S_L866fsI/AAAAAAAAAfU/3dBseK9KlWUzh-tn1rRr1JebPxd7pLGjACLcB/s1600/8f7cb9be5ebc8063f4d1f9cb16b8917d.png).

Полученные дроби равны, следовательно[https://3.bp.blogspot.com/-9Nto16wR7Yg/V3S_eHgzV5I/AAAAAAAAAfg/AkpgXAfZm_4jLpNpe3pY_7qi4B65TxJTgCLcB/s1600/7b2fb106352b24c6dd644a8cdf200295.png](https://3.bp.blogspot.com/-9Nto16wR7Yg/V3S_eHgzV5I/AAAAAAAAAfg/AkpgXAfZm_4jLpNpe3pY_7qi4B65TxJTgCLcB/s1600/7b2fb106352b24c6dd644a8cdf200295.png). Вычитая из обеих частей 1, получаем, что[https://2.bp.blogspot.com/-fz15sXxLQfo/V3OR-KUfjfI/AAAAAAAAAZo/fBQkXQFy4igY5VMg2gMA_e4OxM3KezlwQCKgB/s1600/d944267ac25276f12cb03fc698810d94.png](https://2.bp.blogspot.com/-fz15sXxLQfo/V3OR-KUfjfI/AAAAAAAAAZo/fBQkXQFy4igY5VMg2gMA_e4OxM3KezlwQCKgB/s1600/d944267ac25276f12cb03fc698810d94.png). Quod erat demonstrandum.

**Ошибка**

Заменив 1 в знаменателе, мы  получим:[https://3.bp.blogspot.com/-MS3f-TJc0dM/V3TANNe1j-I/AAAAAAAAAfs/wWLAu-II80ohRGS1jBmz7p4pv2WEJmOjgCLcB/s1600/CodeCogsEqn.gif](https://3.bp.blogspot.com/-MS3f-TJc0dM/V3TANNe1j-I/AAAAAAAAAfs/wWLAu-II80ohRGS1jBmz7p4pv2WEJmOjgCLcB/s1600/CodeCogsEqn.gif). Аналогично со второй дробью:[https://2.bp.blogspot.com/-OeIPQTsPxCs/V3TB3hdg2_I/AAAAAAAAAgE/6qDViIqt8SIDqdNPmsiD0tT8n-tOBMCyACLcB/s1600/CodeCogsEqn.gif](https://2.bp.blogspot.com/-OeIPQTsPxCs/V3TB3hdg2_I/AAAAAAAAAgE/6qDViIqt8SIDqdNPmsiD0tT8n-tOBMCyACLcB/s1600/CodeCogsEqn.gif). Полученые дроби не равны, следовательно, повторяя такое сколько угодно раз, мы никогда не получим, что они равны.

**Ссылки**

[0=1 - Абсурдопедия - Wikia](http://absurdopedia.wikia.com/wiki/0%3D1)