John Kucera

Prof. Craig Poma

SDEV 300

30 October 2019

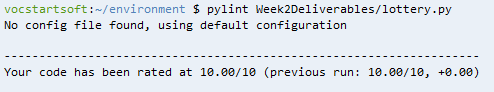
Week 2: Lab 2

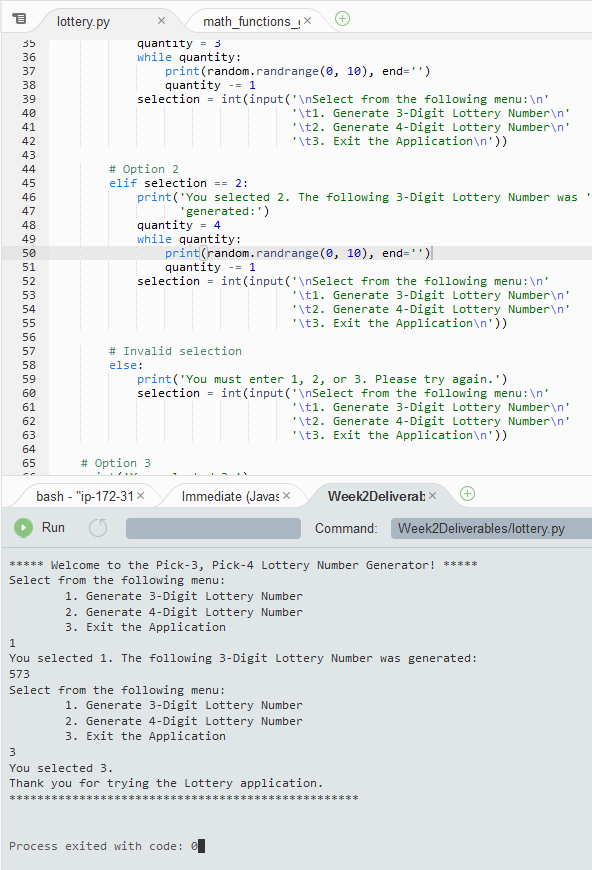
Part 1: Lottery Application

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Input** | **Expected Output** | **Actual Output** | **Pass?** |
| 1a | 1 | 3-digit number containing full range 0-9 | 183 > (Reprint selection menu) | Yes |
| 1b | 1 | 3-digit number containing full range 0-9 | 945 > (Reprint selection menu) | Yes |
| 1c | 1 | 3-digit number containing full range 0-9 | 022 > (Reprint selection menu) | Yes |
| 1d | 2 | 4-digit number containing full range 0-9 | 9696 > (Reprint selection menu) | Yes |
| 1e | 2 | 4-digit number containing full range 0-9 | 3749 > (Reprint selection menu) | Yes |
| 1f | 2 | 4-digit number containing full range 0-9 | 0696 > (Reprint selection menu) | Yes |
| 1g | 3 | You selected 3.  Thank you for trying the Lottery application.  (exit) | You selected 3.  Thank you for trying the Lottery application.  (exit) | Yes |
| 1h | 5 | You must enter 1, 2, or 3. Please try again. (Reprint selection menu) | You must enter 1, 2, or 3. Please try again. (Reprint selection menu) | Yes |

Screen Captures (Lottery Application)

pylint analysis of Lottery application: 10/10



How Lottery application looks (with evidence of Cloud9 being used): 

Test Case 1a:



Test Case 1b:



Test Case 1c:



Test Case 1d:



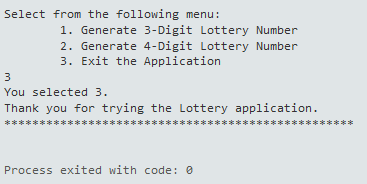
Test Case 1e:



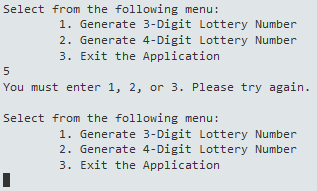
Test Case 1f:



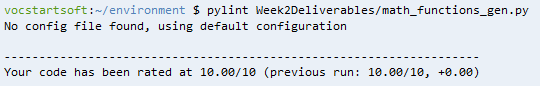
Test Case 1g:



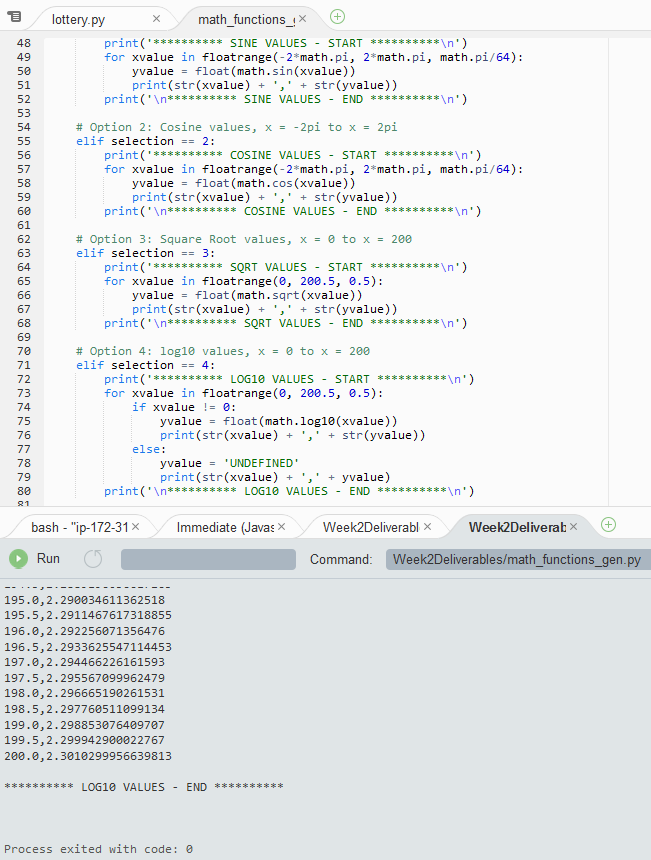
Test Case 1h:



Part 2: Math Generator Application

pylint analysis of Math Function Generator application: 10/10 

How Math Function Generator application looks in Cloud9:



Note: In my code, I made the output values formatted like x,y. I copy/pasted that output onto a text editor, which I saved as a .csv file. After opening the .csv file in Excel, it formatted my x,y values into a chart format (which I turned into an Excel table). The Excel table is pasted here.

|  |  |  |  |
| --- | --- | --- | --- |
| **x (for sin)** | **sin(x)** | **x (for cos)** | **cos(x)** |
| -6.283185307 | 2.45E-16 | -6.283185307 | 1 |
| -6.234097922 | 0.049067674 | -6.234097922 | 0.998795456 |
| -6.185010537 | 0.09801714 | -6.185010537 | 0.995184727 |
| -6.135923152 | 0.146730474 | -6.135923152 | 0.98917651 |
| -6.086835766 | 0.195090322 | -6.086835766 | 0.98078528 |
| -6.037748381 | 0.24298018 | -6.037748381 | 0.970031253 |
| -5.988660996 | 0.290284677 | -5.988660996 | 0.956940336 |
| -5.939573611 | 0.336889853 | -5.939573611 | 0.941544065 |
| -5.890486225 | 0.382683432 | -5.890486225 | 0.923879533 |
| -5.84139884 | 0.427555093 | -5.84139884 | 0.903989293 |
| -5.792311455 | 0.471396737 | -5.792311455 | 0.881921264 |
| -5.74322407 | 0.514102744 | -5.74322407 | 0.85772861 |
| -5.694136685 | 0.555570233 | -5.694136685 | 0.831469612 |
| -5.645049299 | 0.595699304 | -5.645049299 | 0.803207531 |
| -5.595961914 | 0.634393284 | -5.595961914 | 0.773010453 |
| -5.546874529 | 0.671558955 | -5.546874529 | 0.740951125 |
| -5.497787144 | 0.707106781 | -5.497787144 | 0.707106781 |
| -5.448699759 | 0.740951125 | -5.448699759 | 0.671558955 |
| -5.399612373 | 0.773010453 | -5.399612373 | 0.634393284 |
| -5.350524988 | 0.803207531 | -5.350524988 | 0.595699304 |
| -5.301437603 | 0.831469612 | -5.301437603 | 0.555570233 |
| -5.252350218 | 0.85772861 | -5.252350218 | 0.514102744 |
| -5.203262833 | 0.881921264 | -5.203262833 | 0.471396737 |
| -5.154175447 | 0.903989293 | -5.154175447 | 0.427555093 |
| -5.105088062 | 0.923879533 | -5.105088062 | 0.382683432 |
| -5.056000677 | 0.941544065 | -5.056000677 | 0.336889853 |
| -5.006913292 | 0.956940336 | -5.006913292 | 0.290284677 |
| -4.957825906 | 0.970031253 | -4.957825906 | 0.24298018 |
| -4.908738521 | 0.98078528 | -4.908738521 | 0.195090322 |
| -4.859651136 | 0.98917651 | -4.859651136 | 0.146730474 |
| -4.810563751 | 0.995184727 | -4.810563751 | 0.09801714 |
| -4.761476366 | 0.998795456 | -4.761476366 | 0.049067674 |
| -4.71238898 | 1 | -4.71238898 | 5.15E-15 |
| -4.663301595 | 0.998795456 | -4.663301595 | -0.049067674 |
| -4.61421421 | 0.995184727 | -4.61421421 | -0.09801714 |
| -4.565126825 | 0.98917651 | -4.565126825 | -0.146730474 |
| -4.51603944 | 0.98078528 | -4.51603944 | -0.195090322 |
| -4.466952054 | 0.970031253 | -4.466952054 | -0.24298018 |
| -4.417864669 | 0.956940336 | -4.417864669 | -0.290284677 |
| -4.368777284 | 0.941544065 | -4.368777284 | -0.336889853 |
| -4.319689899 | 0.923879533 | -4.319689899 | -0.382683432 |
| -4.270602513 | 0.903989293 | -4.270602513 | -0.427555093 |
| -4.221515128 | 0.881921264 | -4.221515128 | -0.471396737 |
| -4.172427743 | 0.85772861 | -4.172427743 | -0.514102744 |
| -4.123340358 | 0.831469612 | -4.123340358 | -0.555570233 |
| -4.074252973 | 0.803207531 | -4.074252973 | -0.595699304 |
| -4.025165587 | 0.773010453 | -4.025165587 | -0.634393284 |
| -3.976078202 | 0.740951125 | -3.976078202 | -0.671558955 |
| -3.926990817 | 0.707106781 | -3.926990817 | -0.707106781 |
| -3.877903432 | 0.671558955 | -3.877903432 | -0.740951125 |
| -3.828816047 | 0.634393284 | -3.828816047 | -0.773010453 |
| -3.779728661 | 0.595699304 | -3.779728661 | -0.803207531 |
| -3.730641276 | 0.555570233 | -3.730641276 | -0.831469612 |
| -3.681553891 | 0.514102744 | -3.681553891 | -0.85772861 |
| -3.632466506 | 0.471396737 | -3.632466506 | -0.881921264 |
| -3.583379121 | 0.427555093 | -3.583379121 | -0.903989293 |
| -3.534291735 | 0.382683432 | -3.534291735 | -0.923879533 |
| -3.48520435 | 0.336889853 | -3.48520435 | -0.941544065 |
| -3.436116965 | 0.290284677 | -3.436116965 | -0.956940336 |
| -3.38702958 | 0.24298018 | -3.38702958 | -0.970031253 |
| -3.337942194 | 0.195090322 | -3.337942194 | -0.98078528 |
| -3.288854809 | 0.146730474 | -3.288854809 | -0.98917651 |
| -3.239767424 | 0.09801714 | -3.239767424 | -0.995184727 |
| -3.190680039 | 0.049067674 | -3.190680039 | -0.998795456 |
| -3.141592654 | 1.05E-14 | -3.141592654 | -1 |
| -3.092505268 | -0.049067674 | -3.092505268 | -0.998795456 |
| -3.043417883 | -0.09801714 | -3.043417883 | -0.995184727 |
| -2.994330498 | -0.146730474 | -2.994330498 | -0.98917651 |
| -2.945243113 | -0.195090322 | -2.945243113 | -0.98078528 |
| -2.896155728 | -0.24298018 | -2.896155728 | -0.970031253 |
| -2.847068342 | -0.290284677 | -2.847068342 | -0.956940336 |
| -2.797980957 | -0.336889853 | -2.797980957 | -0.941544065 |
| -2.748893572 | -0.382683432 | -2.748893572 | -0.923879533 |
| -2.699806187 | -0.427555093 | -2.699806187 | -0.903989293 |
| -2.650718801 | -0.471396737 | -2.650718801 | -0.881921264 |
| -2.601631416 | -0.514102744 | -2.601631416 | -0.85772861 |
| -2.552544031 | -0.555570233 | -2.552544031 | -0.831469612 |
| -2.503456646 | -0.595699304 | -2.503456646 | -0.803207531 |
| -2.454369261 | -0.634393284 | -2.454369261 | -0.773010453 |
| -2.405281875 | -0.671558955 | -2.405281875 | -0.740951125 |
| -2.35619449 | -0.707106781 | -2.35619449 | -0.707106781 |
| -2.307107105 | -0.740951125 | -2.307107105 | -0.671558955 |
| -2.25801972 | -0.773010453 | -2.25801972 | -0.634393284 |
| -2.208932335 | -0.803207531 | -2.208932335 | -0.595699304 |
| -2.159844949 | -0.831469612 | -2.159844949 | -0.555570233 |
| -2.110757564 | -0.85772861 | -2.110757564 | -0.514102744 |
| -2.061670179 | -0.881921264 | -2.061670179 | -0.471396737 |
| -2.012582794 | -0.903989293 | -2.012582794 | -0.427555093 |
| -1.963495408 | -0.923879533 | -1.963495408 | -0.382683432 |
| -1.914408023 | -0.941544065 | -1.914408023 | -0.336889853 |
| -1.865320638 | -0.956940336 | -1.865320638 | -0.290284677 |
| -1.816233253 | -0.970031253 | -1.816233253 | -0.24298018 |
| -1.767145868 | -0.98078528 | -1.767145868 | -0.195090322 |
| -1.718058482 | -0.98917651 | -1.718058482 | -0.146730474 |
| -1.668971097 | -0.995184727 | -1.668971097 | -0.09801714 |
| -1.619883712 | -0.998795456 | -1.619883712 | -0.049067674 |
| -1.570796327 | -1 | -1.570796327 | -1.39E-14 |
| -1.521708942 | -0.998795456 | -1.521708942 | 0.049067674 |
| -1.472621556 | -0.995184727 | -1.472621556 | 0.09801714 |
| -1.423534171 | -0.98917651 | -1.423534171 | 0.146730474 |
| -1.374446786 | -0.98078528 | -1.374446786 | 0.195090322 |
| -1.325359401 | -0.970031253 | -1.325359401 | 0.24298018 |
| -1.276272016 | -0.956940336 | -1.276272016 | 0.290284677 |
| -1.22718463 | -0.941544065 | -1.22718463 | 0.336889853 |
| -1.178097245 | -0.923879533 | -1.178097245 | 0.382683432 |
| -1.12900986 | -0.903989293 | -1.12900986 | 0.427555093 |
| -1.079922475 | -0.881921264 | -1.079922475 | 0.471396737 |
| -1.030835089 | -0.85772861 | -1.030835089 | 0.514102744 |
| -0.981747704 | -0.831469612 | -0.981747704 | 0.555570233 |
| -0.932660319 | -0.803207531 | -0.932660319 | 0.595699304 |
| -0.883572934 | -0.773010453 | -0.883572934 | 0.634393284 |
| -0.834485549 | -0.740951125 | -0.834485549 | 0.671558955 |
| -0.785398163 | -0.707106781 | -0.785398163 | 0.707106781 |
| -0.736310778 | -0.671558955 | -0.736310778 | 0.740951125 |
| -0.687223393 | -0.634393284 | -0.687223393 | 0.773010453 |
| -0.638136008 | -0.595699304 | -0.638136008 | 0.803207531 |
| -0.589048623 | -0.555570233 | -0.589048623 | 0.831469612 |
| -0.539961237 | -0.514102744 | -0.539961237 | 0.85772861 |
| -0.490873852 | -0.471396737 | -0.490873852 | 0.881921264 |
| -0.441786467 | -0.427555093 | -0.441786467 | 0.903989293 |
| -0.392699082 | -0.382683432 | -0.392699082 | 0.923879533 |
| -0.343611696 | -0.336889853 | -0.343611696 | 0.941544065 |
| -0.294524311 | -0.290284677 | -0.294524311 | 0.956940336 |
| -0.245436926 | -0.24298018 | -0.245436926 | 0.970031253 |
| -0.196349541 | -0.195090322 | -0.196349541 | 0.98078528 |
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| -0.09817477 | -0.09801714 | -0.09817477 | 0.995184727 |
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| 0.049087385 | 0.049067674 | 0.049087385 | 0.998795456 |
| 0.09817477 | 0.09801714 | 0.09817477 | 0.995184727 |
| 0.147262156 | 0.146730474 | 0.147262156 | 0.98917651 |
| 0.196349541 | 0.195090322 | 0.196349541 | 0.98078528 |
| 0.245436926 | 0.24298018 | 0.245436926 | 0.970031253 |
| 0.294524311 | 0.290284677 | 0.294524311 | 0.956940336 |
| 0.343611696 | 0.336889853 | 0.343611696 | 0.941544065 |
| 0.392699082 | 0.382683432 | 0.392699082 | 0.923879533 |
| 0.441786467 | 0.427555093 | 0.441786467 | 0.903989293 |
| 0.490873852 | 0.471396737 | 0.490873852 | 0.881921264 |
| 0.539961237 | 0.514102744 | 0.539961237 | 0.85772861 |
| 0.589048623 | 0.555570233 | 0.589048623 | 0.831469612 |
| 0.638136008 | 0.595699304 | 0.638136008 | 0.803207531 |
| 0.687223393 | 0.634393284 | 0.687223393 | 0.773010453 |
| 0.736310778 | 0.671558955 | 0.736310778 | 0.740951125 |
| 0.785398163 | 0.707106781 | 0.785398163 | 0.707106781 |
| 0.834485549 | 0.740951125 | 0.834485549 | 0.671558955 |
| 0.883572934 | 0.773010453 | 0.883572934 | 0.634393284 |
| 0.932660319 | 0.803207531 | 0.932660319 | 0.595699304 |
| 0.981747704 | 0.831469612 | 0.981747704 | 0.555570233 |
| 1.030835089 | 0.85772861 | 1.030835089 | 0.514102744 |
| 1.079922475 | 0.881921264 | 1.079922475 | 0.471396737 |
| 1.12900986 | 0.903989293 | 1.12900986 | 0.427555093 |
| 1.178097245 | 0.923879533 | 1.178097245 | 0.382683432 |
| 1.22718463 | 0.941544065 | 1.22718463 | 0.336889853 |
| 1.276272016 | 0.956940336 | 1.276272016 | 0.290284677 |
| 1.325359401 | 0.970031253 | 1.325359401 | 0.24298018 |
| 1.374446786 | 0.98078528 | 1.374446786 | 0.195090322 |
| 1.423534171 | 0.98917651 | 1.423534171 | 0.146730474 |
| 1.472621556 | 0.995184727 | 1.472621556 | 0.09801714 |
| 1.521708942 | 0.998795456 | 1.521708942 | 0.049067674 |
| 1.570796327 | 1 | 1.570796327 | 1.18E-14 |
| 1.619883712 | 0.998795456 | 1.619883712 | -0.049067674 |
| 1.668971097 | 0.995184727 | 1.668971097 | -0.09801714 |
| 1.718058482 | 0.98917651 | 1.718058482 | -0.146730474 |
| 1.767145868 | 0.98078528 | 1.767145868 | -0.195090322 |
| 1.816233253 | 0.970031253 | 1.816233253 | -0.24298018 |
| 1.865320638 | 0.956940336 | 1.865320638 | -0.290284677 |
| 1.914408023 | 0.941544065 | 1.914408023 | -0.336889853 |
| 1.963495408 | 0.923879533 | 1.963495408 | -0.382683432 |
| 2.012582794 | 0.903989293 | 2.012582794 | -0.427555093 |
| 2.061670179 | 0.881921264 | 2.061670179 | -0.471396737 |
| 2.110757564 | 0.85772861 | 2.110757564 | -0.514102744 |
| 2.159844949 | 0.831469612 | 2.159844949 | -0.555570233 |
| 2.208932335 | 0.803207531 | 2.208932335 | -0.595699304 |
| 2.25801972 | 0.773010453 | 2.25801972 | -0.634393284 |
| 2.307107105 | 0.740951125 | 2.307107105 | -0.671558955 |
| 2.35619449 | 0.707106781 | 2.35619449 | -0.707106781 |
| 2.405281875 | 0.671558955 | 2.405281875 | -0.740951125 |
| 2.454369261 | 0.634393284 | 2.454369261 | -0.773010453 |
| 2.503456646 | 0.595699304 | 2.503456646 | -0.803207531 |
| 2.552544031 | 0.555570233 | 2.552544031 | -0.831469612 |
| 2.601631416 | 0.514102744 | 2.601631416 | -0.85772861 |
| 2.650718801 | 0.471396737 | 2.650718801 | -0.881921264 |
| 2.699806187 | 0.427555093 | 2.699806187 | -0.903989293 |
| 2.748893572 | 0.382683432 | 2.748893572 | -0.923879533 |
| 2.797980957 | 0.336889853 | 2.797980957 | -0.941544065 |
| 2.847068342 | 0.290284677 | 2.847068342 | -0.956940336 |
| 2.896155728 | 0.24298018 | 2.896155728 | -0.970031253 |
| 2.945243113 | 0.195090322 | 2.945243113 | -0.98078528 |
| 2.994330498 | 0.146730474 | 2.994330498 | -0.98917651 |
| 3.043417883 | 0.09801714 | 3.043417883 | -0.995184727 |
| 3.092505268 | 0.049067674 | 3.092505268 | -0.998795456 |
| 3.141592654 | 1.52E-14 | 3.141592654 | -1 |
| 3.190680039 | -0.049067674 | 3.190680039 | -0.998795456 |
| 3.239767424 | -0.09801714 | 3.239767424 | -0.995184727 |
| 3.288854809 | -0.146730474 | 3.288854809 | -0.98917651 |
| 3.337942194 | -0.195090322 | 3.337942194 | -0.98078528 |
| 3.38702958 | -0.24298018 | 3.38702958 | -0.970031253 |
| 3.436116965 | -0.290284677 | 3.436116965 | -0.956940336 |
| 3.48520435 | -0.336889853 | 3.48520435 | -0.941544065 |
| 3.534291735 | -0.382683432 | 3.534291735 | -0.923879533 |
| 3.583379121 | -0.427555093 | 3.583379121 | -0.903989293 |
| 3.632466506 | -0.471396737 | 3.632466506 | -0.881921264 |
| 3.681553891 | -0.514102744 | 3.681553891 | -0.85772861 |
| 3.730641276 | -0.555570233 | 3.730641276 | -0.831469612 |
| 3.779728661 | -0.595699304 | 3.779728661 | -0.803207531 |
| 3.828816047 | -0.634393284 | 3.828816047 | -0.773010453 |
| 3.877903432 | -0.671558955 | 3.877903432 | -0.740951125 |
| 3.926990817 | -0.707106781 | 3.926990817 | -0.707106781 |
| 3.976078202 | -0.740951125 | 3.976078202 | -0.671558955 |
| 4.025165587 | -0.773010453 | 4.025165587 | -0.634393284 |
| 4.074252973 | -0.803207531 | 4.074252973 | -0.595699304 |
| 4.123340358 | -0.831469612 | 4.123340358 | -0.555570233 |
| 4.172427743 | -0.85772861 | 4.172427743 | -0.514102744 |
| 4.221515128 | -0.881921264 | 4.221515128 | -0.471396737 |
| 4.270602513 | -0.903989293 | 4.270602513 | -0.427555093 |
| 4.319689899 | -0.923879533 | 4.319689899 | -0.382683432 |
| 4.368777284 | -0.941544065 | 4.368777284 | -0.336889853 |
| 4.417864669 | -0.956940336 | 4.417864669 | -0.290284677 |
| 4.466952054 | -0.970031253 | 4.466952054 | -0.24298018 |
| 4.51603944 | -0.98078528 | 4.51603944 | -0.195090322 |
| 4.565126825 | -0.98917651 | 4.565126825 | -0.146730474 |
| 4.61421421 | -0.995184727 | 4.61421421 | -0.09801714 |
| 4.663301595 | -0.998795456 | 4.663301595 | -0.049067674 |
| 4.71238898 | -1 | 4.71238898 | -2.06E-14 |
| 4.761476366 | -0.998795456 | 4.761476366 | 0.049067674 |
| 4.810563751 | -0.995184727 | 4.810563751 | 0.09801714 |
| 4.859651136 | -0.98917651 | 4.859651136 | 0.146730474 |
| 4.908738521 | -0.98078528 | 4.908738521 | 0.195090322 |
| 4.957825906 | -0.970031253 | 4.957825906 | 0.24298018 |
| 5.006913292 | -0.956940336 | 5.006913292 | 0.290284677 |
| 5.056000677 | -0.941544065 | 5.056000677 | 0.336889853 |
| 5.105088062 | -0.923879533 | 5.105088062 | 0.382683432 |
| 5.154175447 | -0.903989293 | 5.154175447 | 0.427555093 |
| 5.203262833 | -0.881921264 | 5.203262833 | 0.471396737 |
| 5.252350218 | -0.85772861 | 5.252350218 | 0.514102744 |
| 5.301437603 | -0.831469612 | 5.301437603 | 0.555570233 |
| 5.350524988 | -0.803207531 | 5.350524988 | 0.595699304 |
| 5.399612373 | -0.773010453 | 5.399612373 | 0.634393284 |
| 5.448699759 | -0.740951125 | 5.448699759 | 0.671558955 |
| 5.497787144 | -0.707106781 | 5.497787144 | 0.707106781 |
| 5.595961914 | -0.634393284 | 5.546874529 | 0.740951125 |
| 5.645049299 | -0.595699304 | 5.595961914 | 0.773010453 |
| 5.694136685 | -0.555570233 | 5.645049299 | 0.803207531 |
| 5.74322407 | -0.514102744 | 5.694136685 | 0.831469612 |
| 5.792311455 | -0.471396737 | 5.74322407 | 0.85772861 |
| 5.84139884 | -0.427555093 | 5.792311455 | 0.881921264 |
| 5.890486225 | -0.382683432 | 5.84139884 | 0.903989293 |
| 5.939573611 | -0.336889853 | 5.890486225 | 0.923879533 |
| 5.988660996 | -0.290284677 | 5.939573611 | 0.941544065 |
| 6.037748381 | -0.24298018 | 6.037748381 | 0.970031253 |
| 6.086835766 | -0.195090322 | 6.086835766 | 0.98078528 |
| 6.135923152 | -0.146730474 | 6.135923152 | 0.98917651 |
| 6.185010537 | -0.09801714 | 6.185010537 | 0.995184727 |
| 6.234097922 | -0.049067674 | 6.234097922 | 0.998795456 |
| 6.283185307 | -2.60E-14 | 6.283185307 | 1 |

(Graph made with Excel)

|  |  |  |  |
| --- | --- | --- | --- |
| **x (for sqrt)** | **sqrt(x)** | **x (for log10)** | **log10(x)** |
| 0 | 0 | 0 | UNDEFINED |
| 0.5 | 0.707106781 | 0.5 | -0.301029996 |
| 1 | 1 | 1 | 0 |
| 1.5 | 1.224744871 | 1.5 | 0.176091259 |
| 2 | 1.414213562 | 2 | 0.301029996 |
| 2.5 | 1.58113883 | 2.5 | 0.397940009 |
| 3 | 1.732050808 | 3 | 0.477121255 |
| 3.5 | 1.870828693 | 3.5 | 0.544068044 |
| 4 | 2 | 4 | 0.602059991 |
| 4.5 | 2.121320344 | 4.5 | 0.653212514 |
| 5 | 2.236067977 | 5 | 0.698970004 |
| 5.5 | 2.34520788 | 5.5 | 0.740362689 |
| 6 | 2.449489743 | 6 | 0.77815125 |
| 6.5 | 2.549509757 | 6.5 | 0.812913357 |
| 7 | 2.645751311 | 7 | 0.84509804 |
| 7.5 | 2.738612788 | 7.5 | 0.875061263 |
| 8 | 2.828427125 | 8 | 0.903089987 |
| 8.5 | 2.915475947 | 8.5 | 0.929418926 |
| 9 | 3 | 9 | 0.954242509 |
| 9.5 | 3.082207001 | 9.5 | 0.977723605 |
| 10 | 3.16227766 | 10 | 1 |
| 10.5 | 3.240370349 | 10.5 | 1.021189299 |
| 11 | 3.31662479 | 11 | 1.041392685 |
| 11.5 | 3.391164992 | 11.5 | 1.06069784 |
| 12 | 3.464101615 | 12 | 1.079181246 |
| 12.5 | 3.535533906 | 12.5 | 1.096910013 |
| 13 | 3.605551275 | 13 | 1.113943352 |
| 13.5 | 3.674234614 | 13.5 | 1.130333768 |
| 14 | 3.741657387 | 14 | 1.146128036 |
| 14.5 | 3.807886553 | 14.5 | 1.161368002 |
| 15 | 3.872983346 | 15 | 1.176091259 |
| 15.5 | 3.937003937 | 15.5 | 1.190331698 |
| 16 | 4 | 16 | 1.204119983 |
| 16.5 | 4.062019202 | 16.5 | 1.217483944 |
| 17 | 4.123105626 | 17 | 1.230448921 |
| 17.5 | 4.183300133 | 17.5 | 1.243038049 |
| 18 | 4.242640687 | 18 | 1.255272505 |
| 18.5 | 4.301162634 | 18.5 | 1.267171728 |
| 19 | 4.358898944 | 19 | 1.278753601 |
| 19.5 | 4.415880433 | 19.5 | 1.290034611 |
| 20 | 4.472135955 | 20 | 1.301029996 |
| 20.5 | 4.527692569 | 20.5 | 1.311753861 |
| 21 | 4.582575695 | 21 | 1.322219295 |
| 21.5 | 4.636809248 | 21.5 | 1.33243846 |
| 22 | 4.69041576 | 22 | 1.342422681 |
| 22.5 | 4.74341649 | 22.5 | 1.352182518 |
| 23 | 4.795831523 | 23 | 1.361727836 |
| 23.5 | 4.847679857 | 23.5 | 1.371067862 |
| 24 | 4.898979486 | 24 | 1.380211242 |
| 24.5 | 4.949747468 | 24.5 | 1.389166084 |
| 25 | 5 | 25 | 1.397940009 |
| 25.5 | 5.049752469 | 25.5 | 1.40654018 |
| 26 | 5.099019514 | 26 | 1.414973348 |
| 26.5 | 5.14781507 | 26.5 | 1.423245874 |
| 27 | 5.196152423 | 27 | 1.431363764 |
| 27.5 | 5.244044241 | 27.5 | 1.439332694 |
| 28 | 5.291502622 | 28 | 1.447158031 |
| 28.5 | 5.338539126 | 28.5 | 1.45484486 |
| 29 | 5.385164807 | 29 | 1.462397998 |
| 29.5 | 5.431390246 | 29.5 | 1.469822016 |
| 30 | 5.477225575 | 30 | 1.477121255 |
| 30.5 | 5.522680509 | 30.5 | 1.484299839 |
| 31 | 5.567764363 | 31 | 1.491361694 |
| 31.5 | 5.61248608 | 31.5 | 1.498310554 |
| 32 | 5.656854249 | 32 | 1.505149978 |
| 32.5 | 5.700877125 | 32.5 | 1.511883361 |
| 33 | 5.744562647 | 33 | 1.51851394 |
| 33.5 | 5.787918451 | 33.5 | 1.525044807 |
| 34 | 5.830951895 | 34 | 1.531478917 |
| 34.5 | 5.873670062 | 34.5 | 1.537819095 |
| 35 | 5.916079783 | 35 | 1.544068044 |
| 35.5 | 5.958187644 | 35.5 | 1.550228353 |
| 36 | 6 | 36 | 1.556302501 |
| 36.5 | 6.041522987 | 36.5 | 1.562292864 |
| 37 | 6.08276253 | 37 | 1.568201724 |
| 37.5 | 6.123724357 | 37.5 | 1.574031268 |
| 38 | 6.164414003 | 38 | 1.579783597 |
| 38.5 | 6.204836823 | 38.5 | 1.58546073 |
| 39 | 6.244997998 | 39 | 1.591064607 |
| 39.5 | 6.284902545 | 39.5 | 1.596597096 |
| 40 | 6.32455532 | 40 | 1.602059991 |
| 40.5 | 6.363961031 | 40.5 | 1.607455023 |
| 41 | 6.403124237 | 41 | 1.612783857 |
| 41.5 | 6.442049363 | 41.5 | 1.618048097 |
| 42 | 6.480740698 | 42 | 1.62324929 |
| 42.5 | 6.519202405 | 42.5 | 1.62838893 |
| 43 | 6.557438524 | 43 | 1.633468456 |
| 43.5 | 6.595452979 | 43.5 | 1.638489257 |
| 44 | 6.633249581 | 44 | 1.643452676 |
| 44.5 | 6.670832032 | 44.5 | 1.648360011 |
| 45 | 6.708203932 | 45 | 1.653212514 |
| 45.5 | 6.745368782 | 45.5 | 1.658011397 |
| 46 | 6.782329983 | 46 | 1.662757832 |
| 46.5 | 6.819090848 | 46.5 | 1.667452953 |
| 47 | 6.8556546 | 47 | 1.672097858 |
| 47.5 | 6.892024376 | 47.5 | 1.67669361 |
| 48 | 6.92820323 | 48 | 1.681241237 |
| 48.5 | 6.964194139 | 48.5 | 1.685741739 |
| 49 | 7 | 49 | 1.69019608 |
| 49.5 | 7.03562364 | 49.5 | 1.694605199 |
| 50 | 7.071067812 | 50 | 1.698970004 |
| 50.5 | 7.106335202 | 50.5 | 1.703291378 |
| 51 | 7.141428429 | 51 | 1.707570176 |
| 51.5 | 7.176350047 | 51.5 | 1.711807229 |
| 52 | 7.211102551 | 52 | 1.716003344 |
| 52.5 | 7.245688373 | 52.5 | 1.720159303 |
| 53 | 7.280109889 | 53 | 1.72427587 |
| 53.5 | 7.314369419 | 53.5 | 1.728353782 |
| 54 | 7.348469228 | 54 | 1.73239376 |
| 54.5 | 7.38241153 | 54.5 | 1.736396502 |
| 55 | 7.416198487 | 55 | 1.740362689 |
| 55.5 | 7.449832213 | 55.5 | 1.744292983 |
| 56 | 7.483314774 | 56 | 1.748188027 |
| 56.5 | 7.516648189 | 56.5 | 1.752048448 |
| 57 | 7.549834435 | 57 | 1.755874856 |
| 57.5 | 7.582875444 | 57.5 | 1.759667845 |
| 58 | 7.615773106 | 58 | 1.763427994 |
| 58.5 | 7.64852927 | 58.5 | 1.767155866 |
| 59 | 7.681145748 | 59 | 1.770852012 |
| 59.5 | 7.71362431 | 59.5 | 1.774516966 |
| 60 | 7.745966692 | 60 | 1.77815125 |
| 60.5 | 7.778174593 | 60.5 | 1.781755375 |
| 61 | 7.810249676 | 61 | 1.785329835 |
| 61.5 | 7.842193571 | 61.5 | 1.788875116 |
| 62 | 7.874007874 | 62 | 1.792391689 |
| 62.5 | 7.90569415 | 62.5 | 1.795880017 |
| 63 | 7.937253933 | 63 | 1.799340549 |
| 63.5 | 7.968688725 | 63.5 | 1.802773725 |
| 64 | 8 | 64 | 1.806179974 |
| 64.5 | 8.031189202 | 64.5 | 1.809559715 |
| 65 | 8.062257748 | 65 | 1.812913357 |
| 65.5 | 8.093207028 | 65.5 | 1.8162413 |
| 66 | 8.124038405 | 66 | 1.819543936 |
| 66.5 | 8.154753215 | 66.5 | 1.822821645 |
| 67 | 8.185352772 | 67 | 1.826074803 |
| 67.5 | 8.215838363 | 67.5 | 1.829303773 |
| 68 | 8.246211251 | 68 | 1.832508913 |
| 68.5 | 8.276472679 | 68.5 | 1.835690571 |
| 69 | 8.306623863 | 69 | 1.838849091 |
| 69.5 | 8.336666 | 69.5 | 1.841984805 |
| 70 | 8.366600265 | 70 | 1.84509804 |
| 70.5 | 8.396427812 | 70.5 | 1.848189117 |
| 71 | 8.426149773 | 71 | 1.851258349 |
| 71.5 | 8.455767263 | 71.5 | 1.854306042 |
| 72 | 8.485281374 | 72 | 1.857332496 |
| 72.5 | 8.514693183 | 72.5 | 1.860338007 |
| 73 | 8.544003745 | 73 | 1.86332286 |
| 73.5 | 8.5732141 | 73.5 | 1.866287339 |
| 74 | 8.602325267 | 74 | 1.86923172 |
| 74.5 | 8.631338251 | 74.5 | 1.872156273 |
| 75 | 8.660254038 | 75 | 1.875061263 |
| 75.5 | 8.689073598 | 75.5 | 1.877946952 |
| 76 | 8.717797887 | 76 | 1.880813592 |
| 76.5 | 8.746427842 | 76.5 | 1.883661435 |
| 77 | 8.774964387 | 77 | 1.886490725 |
| 77.5 | 8.803408431 | 77.5 | 1.889301703 |
| 78 | 8.831760866 | 78 | 1.892094603 |
| 78.5 | 8.860022573 | 78.5 | 1.894869657 |
| 79 | 8.888194417 | 79 | 1.897627091 |
| 79.5 | 8.91627725 | 79.5 | 1.900367129 |
| 80 | 8.94427191 | 80 | 1.903089987 |
| 80.5 | 8.972179222 | 80.5 | 1.90579588 |
| 81 | 9 | 81 | 1.908485019 |
| 81.5 | 9.027735043 | 81.5 | 1.911157609 |
| 82 | 9.055385138 | 82 | 1.913813852 |
| 82.5 | 9.082951062 | 82.5 | 1.916453949 |
| 83 | 9.110433579 | 83 | 1.919078092 |
| 83.5 | 9.137833441 | 83.5 | 1.921686475 |
| 84 | 9.16515139 | 84 | 1.924279286 |
| 84.5 | 9.192388155 | 84.5 | 1.926856709 |
| 85 | 9.219544457 | 85 | 1.929418926 |
| 85.5 | 9.246621004 | 85.5 | 1.931966115 |
| 86 | 9.273618495 | 86 | 1.934498451 |
| 86.5 | 9.300537619 | 86.5 | 1.937016107 |
| 87 | 9.327379053 | 87 | 1.939519253 |
| 87.5 | 9.354143467 | 87.5 | 1.942008053 |
| 88 | 9.38083152 | 88 | 1.944482672 |
| 88.5 | 9.407443861 | 88.5 | 1.946943271 |
| 89 | 9.433981132 | 89 | 1.949390007 |
| 89.5 | 9.460443964 | 89.5 | 1.951823035 |
| 90 | 9.486832981 | 90 | 1.954242509 |
| 90.5 | 9.513148795 | 90.5 | 1.956648579 |
| 91 | 9.539392014 | 91 | 1.959041392 |
| 91.5 | 9.565563235 | 91.5 | 1.961421094 |
| 92 | 9.591663047 | 92 | 1.963787827 |
| 92.5 | 9.617692031 | 92.5 | 1.966141733 |
| 93 | 9.643650761 | 93 | 1.968482949 |
| 93.5 | 9.669539803 | 93.5 | 1.970811611 |
| 94 | 9.695359715 | 94 | 1.973127854 |
| 94.5 | 9.721111048 | 94.5 | 1.975431809 |
| 95 | 9.746794345 | 95 | 1.977723605 |
| 95.5 | 9.772410143 | 95.5 | 1.980003372 |
| 96 | 9.797958971 | 96 | 1.982271233 |
| 96.5 | 9.823441352 | 96.5 | 1.984527313 |
| 97 | 9.848857802 | 97 | 1.986771734 |
| 97.5 | 9.874208829 | 97.5 | 1.989004616 |
| 98 | 9.899494937 | 98 | 1.991226076 |
| 98.5 | 9.924716621 | 98.5 | 1.99343623 |
| 99 | 9.949874371 | 99 | 1.995635195 |
| 99.5 | 9.974968672 | 99.5 | 1.997823081 |
| 100 | 10 | 100 | 2 |
| 100.5 | 10.02496883 | 100.5 | 2.002166062 |
| 101 | 10.04987562 | 101 | 2.004321374 |
| 101.5 | 10.07472084 | 101.5 | 2.006466042 |
| 102 | 10.09950494 | 102 | 2.008600172 |
| 102.5 | 10.12422837 | 102.5 | 2.010723865 |
| 103 | 10.14889157 | 103 | 2.012837225 |
| 103.5 | 10.17349497 | 103.5 | 2.01494035 |
| 104 | 10.19803903 | 104 | 2.017033339 |
| 104.5 | 10.22252415 | 104.5 | 2.01911629 |
| 105 | 10.24695077 | 105 | 2.021189299 |
| 105.5 | 10.27131929 | 105.5 | 2.02325246 |
| 106 | 10.29563014 | 106 | 2.025305865 |
| 106.5 | 10.31988372 | 106.5 | 2.027349608 |
| 107 | 10.34408043 | 107 | 2.029383778 |
| 107.5 | 10.36822068 | 107.5 | 2.031408464 |
| 108 | 10.39230485 | 108 | 2.033423755 |
| 108.5 | 10.41633333 | 108.5 | 2.035429738 |
| 109 | 10.44030651 | 109 | 2.037426498 |
| 109.5 | 10.46422477 | 109.5 | 2.039414119 |
| 110 | 10.48808848 | 110 | 2.041392685 |
| 110.5 | 10.51189802 | 110.5 | 2.043362278 |
| 111 | 10.53565375 | 111 | 2.045322979 |
| 111.5 | 10.55935604 | 111.5 | 2.047274867 |
| 112 | 10.58300524 | 112 | 2.049218023 |
| 112.5 | 10.60660172 | 112.5 | 2.051152522 |
| 113 | 10.63014581 | 113 | 2.053078443 |
| 113.5 | 10.65363788 | 113.5 | 2.054995862 |
| 114 | 10.67707825 | 114 | 2.056904851 |
| 114.5 | 10.70046728 | 114.5 | 2.058805487 |
| 115 | 10.72380529 | 115 | 2.06069784 |
| 115.5 | 10.74709263 | 115.5 | 2.062581984 |
| 116 | 10.77032961 | 116 | 2.064457989 |
| 116.5 | 10.79351657 | 116.5 | 2.066325925 |
| 117 | 10.81665383 | 117 | 2.068185862 |
| 117.5 | 10.83974169 | 117.5 | 2.070037867 |
| 118 | 10.86278049 | 118 | 2.071882007 |
| 118.5 | 10.88577053 | 118.5 | 2.07371835 |
| 119 | 10.90871211 | 119 | 2.075546961 |
| 119.5 | 10.93160555 | 119.5 | 2.077367905 |
| 120 | 10.95445115 | 120 | 2.079181246 |
| 120.5 | 10.9772492 | 120.5 | 2.080987047 |
| 121 | 11 | 121 | 2.08278537 |
| 121.5 | 11.02270384 | 121.5 | 2.084576278 |
| 122 | 11.04536102 | 122 | 2.086359831 |
| 122.5 | 11.06797181 | 122.5 | 2.088136089 |
| 123 | 11.09053651 | 123 | 2.089905111 |
| 123.5 | 11.11305539 | 123.5 | 2.091666958 |
| 124 | 11.13552873 | 124 | 2.093421685 |
| 124.5 | 11.1579568 | 124.5 | 2.095169351 |
| 125 | 11.18033989 | 125 | 2.096910013 |
| 125.5 | 11.20267825 | 125.5 | 2.098643726 |
| 126 | 11.22497216 | 126 | 2.100370545 |
| 126.5 | 11.24722188 | 126.5 | 2.102090526 |
| 127 | 11.26942767 | 127 | 2.103803721 |
| 127.5 | 11.29158979 | 127.5 | 2.105510185 |
| 128 | 11.3137085 | 128 | 2.10720997 |
| 128.5 | 11.33578405 | 128.5 | 2.108903128 |
| 129 | 11.35781669 | 129 | 2.11058971 |
| 129.5 | 11.37980668 | 129.5 | 2.112269768 |
| 130 | 11.40175425 | 130 | 2.113943352 |
| 130.5 | 11.42365966 | 130.5 | 2.115610512 |
| 131 | 11.44552314 | 131 | 2.117271296 |
| 131.5 | 11.46734494 | 131.5 | 2.118925753 |
| 132 | 11.48912529 | 132 | 2.120573931 |
| 132.5 | 11.51086443 | 132.5 | 2.122215878 |
| 133 | 11.53256259 | 133 | 2.123851641 |
| 133.5 | 11.55422001 | 133.5 | 2.125481266 |
| 134 | 11.5758369 | 134 | 2.127104798 |
| 134.5 | 11.5974135 | 134.5 | 2.128722284 |
| 135 | 11.61895004 | 135 | 2.130333768 |
| 135.5 | 11.64044673 | 135.5 | 2.131939295 |
| 136 | 11.66190379 | 136 | 2.133538908 |
| 136.5 | 11.68332145 | 136.5 | 2.135132651 |
| 137 | 11.70469991 | 137 | 2.136720567 |
| 137.5 | 11.7260394 | 137.5 | 2.138302698 |
| 138 | 11.74734012 | 138 | 2.139879086 |
| 138.5 | 11.7686023 | 138.5 | 2.141449773 |
| 139 | 11.78982612 | 139 | 2.1430148 |
| 139.5 | 11.81101181 | 139.5 | 2.144574208 |
| 140 | 11.83215957 | 140 | 2.146128036 |
| 140.5 | 11.85326959 | 140.5 | 2.147676324 |
| 141 | 11.87434209 | 141 | 2.149219113 |
| 141.5 | 11.89537725 | 141.5 | 2.15075644 |
| 142 | 11.91637529 | 142 | 2.152288344 |
| 142.5 | 11.93733639 | 142.5 | 2.153814864 |
| 143 | 11.95826074 | 143 | 2.155336037 |
| 143.5 | 11.97914855 | 143.5 | 2.156851901 |
| 144 | 12 | 144 | 2.158362492 |
| 144.5 | 12.02081528 | 144.5 | 2.159867847 |
| 145 | 12.04159458 | 145 | 2.161368002 |
| 145.5 | 12.06233808 | 145.5 | 2.162862993 |
| 146 | 12.08304597 | 146 | 2.164352856 |
| 146.5 | 12.10371844 | 146.5 | 2.165837625 |
| 147 | 12.12435565 | 147 | 2.167317335 |
| 147.5 | 12.1449578 | 147.5 | 2.16879202 |
| 148 | 12.16552506 | 148 | 2.170261715 |
| 148.5 | 12.18605761 | 148.5 | 2.171726454 |
| 149 | 12.20655562 | 149 | 2.173186268 |
| 149.5 | 12.22701926 | 149.5 | 2.174641193 |
| 150 | 12.24744871 | 150 | 2.176091259 |
| 150.5 | 12.26784415 | 150.5 | 2.1775365 |
| 151 | 12.28820573 | 151 | 2.178976947 |
| 151.5 | 12.30853363 | 151.5 | 2.180412633 |
| 152 | 12.32882801 | 152 | 2.181843588 |
| 152.5 | 12.34908904 | 152.5 | 2.183269844 |
| 153 | 12.36931688 | 153 | 2.184691431 |
| 153.5 | 12.38951169 | 153.5 | 2.18610838 |
| 154 | 12.40967365 | 154 | 2.187520721 |
| 154.5 | 12.42980289 | 154.5 | 2.188928484 |
| 155 | 12.4498996 | 155 | 2.190331698 |
| 155.5 | 12.46996391 | 155.5 | 2.191730393 |
| 156 | 12.489996 | 156 | 2.193124598 |
| 156.5 | 12.509996 | 156.5 | 2.194514342 |
| 157 | 12.52996409 | 157 | 2.195899652 |
| 157.5 | 12.5499004 | 157.5 | 2.197280558 |
| 158 | 12.56980509 | 158 | 2.198657087 |
| 158.5 | 12.58967831 | 158.5 | 2.200029267 |
| 159 | 12.60952021 | 159 | 2.201397124 |
| 159.5 | 12.62933094 | 159.5 | 2.202760687 |
| 160 | 12.64911064 | 160 | 2.204119983 |
| 160.5 | 12.66885946 | 160.5 | 2.205475037 |
| 161 | 12.68857754 | 161 | 2.206825876 |
| 161.5 | 12.70826503 | 161.5 | 2.208172527 |
| 162 | 12.72792206 | 162 | 2.209515015 |
| 162.5 | 12.74754878 | 162.5 | 2.210853365 |
| 163 | 12.76714533 | 163 | 2.212187604 |
| 163.5 | 12.78671185 | 163.5 | 2.213517757 |
| 164 | 12.80624847 | 164 | 2.214843848 |
| 164.5 | 12.82575534 | 164.5 | 2.216165902 |
| 165 | 12.84523258 | 165 | 2.217483944 |
| 165.5 | 12.86468033 | 165.5 | 2.218797998 |
| 166 | 12.88409873 | 166 | 2.220108088 |
| 166.5 | 12.9034879 | 166.5 | 2.221414238 |
| 167 | 12.92284798 | 167 | 2.222716471 |
| 167.5 | 12.94217911 | 167.5 | 2.224014811 |
| 168 | 12.9614814 | 168 | 2.225309282 |
| 168.5 | 12.98075499 | 168.5 | 2.226599905 |
| 169 | 13 | 169 | 2.227886705 |
| 169.5 | 13.01921657 | 169.5 | 2.229169703 |
| 170 | 13.03840481 | 170 | 2.230448921 |
| 170.5 | 13.05756486 | 170.5 | 2.231724383 |
| 171 | 13.07669683 | 171 | 2.23299611 |
| 171.5 | 13.09580085 | 171.5 | 2.234264124 |
| 172 | 13.11487705 | 172 | 2.235528447 |
| 172.5 | 13.13392554 | 172.5 | 2.236789099 |
| 173 | 13.15294644 | 173 | 2.238046103 |
| 173.5 | 13.17193987 | 173.5 | 2.239299479 |
| 174 | 13.19090596 | 174 | 2.240549248 |
| 174.5 | 13.20984481 | 174.5 | 2.241795431 |
| 175 | 13.22875656 | 175 | 2.243038049 |
| 175.5 | 13.2476413 | 175.5 | 2.244277121 |
| 176 | 13.26649916 | 176 | 2.245512668 |
| 176.5 | 13.28533026 | 176.5 | 2.24674471 |
| 177 | 13.3041347 | 177 | 2.247973266 |
| 177.5 | 13.32291259 | 177.5 | 2.249198357 |
| 178 | 13.34166406 | 178 | 2.250420002 |
| 178.5 | 13.36038922 | 178.5 | 2.25163822 |
| 179 | 13.37908816 | 179 | 2.252853031 |
| 179.5 | 13.39776101 | 179.5 | 2.254064453 |
| 180 | 13.41640786 | 180 | 2.255272505 |
| 180.5 | 13.43502884 | 180.5 | 2.256477206 |
| 181 | 13.45362405 | 181 | 2.257678575 |
| 181.5 | 13.47219359 | 181.5 | 2.258876629 |
| 182 | 13.49073756 | 182 | 2.260071388 |
| 182.5 | 13.50925609 | 182.5 | 2.261262869 |
| 183 | 13.52774926 | 183 | 2.26245109 |
| 183.5 | 13.54621718 | 183.5 | 2.263636069 |
| 184 | 13.56465997 | 184 | 2.264817823 |
| 184.5 | 13.58307771 | 184.5 | 2.26599637 |
| 185 | 13.60147051 | 185 | 2.267171728 |
| 185.5 | 13.61983847 | 185.5 | 2.268343914 |
| 186 | 13.6381817 | 186 | 2.269512944 |
| 186.5 | 13.65650028 | 186.5 | 2.270678836 |
| 187 | 13.67479433 | 187 | 2.271841607 |
| 187.5 | 13.69306394 | 187.5 | 2.273001272 |
| 188 | 13.7113092 | 188 | 2.274157849 |
| 188.5 | 13.72953022 | 188.5 | 2.275311355 |
| 189 | 13.74772708 | 189 | 2.276461804 |
| 189.5 | 13.7658999 | 189.5 | 2.277609214 |
| 190 | 13.78404875 | 190 | 2.278753601 |
| 190.5 | 13.80217374 | 190.5 | 2.27989498 |
| 191 | 13.82027496 | 191 | 2.281033367 |
| 191.5 | 13.8383525 | 191.5 | 2.282168778 |
| 192 | 13.85640646 | 192 | 2.283301229 |
| 192.5 | 13.87443693 | 192.5 | 2.284430734 |
| 193 | 13.89244399 | 193 | 2.285557309 |
| 193.5 | 13.91042774 | 193.5 | 2.286680969 |
| 194 | 13.92838828 | 194 | 2.28780173 |
| 194.5 | 13.94632568 | 194.5 | 2.288919606 |
| 195 | 13.96424004 | 195 | 2.290034611 |
| 195.5 | 13.98213145 | 195.5 | 2.291146762 |
| 196 | 14 | 196 | 2.292256071 |
| 197 | 14.03566885 | 197 | 2.294466226 |
| 197.5 | 14.05346932 | 197.5 | 2.2955671 |
| 198 | 14.07124728 | 198 | 2.29666519 |
| 198.5 | 14.0890028 | 198.5 | 2.297760511 |
| 199 | 14.10673598 | 199 | 2.298853076 |
| 199.5 | 14.12444689 | 199.5 | 2.2999429 |
| 200 | 14.14213562 | 200 | 2.301029996 |

(Graph made with Excel)