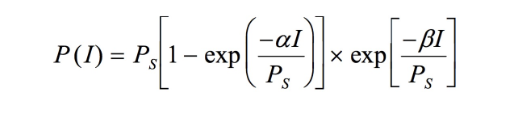
**OC 523: Midterm**

**Question 1**

This research experiment looked at the effects of PAR Irradiance and its effects on primary productivity. PAR Irradiance is the part of the electromagnetic spectrum that can be utilized for photosynthesis.

**Question 1A**

Primary productivity is influenced by light, or irradiance, and a number of other factors as shown in Equation 1. This curve shows the importance of light on autotroph productivity, particularly photoautotrophs which rely on sunlight top perform photosynthesis. Figure 1.1 shows how productivity grows linerally as light energy is transferred to the system but then falls off under the presence of too much irradiance.



**Figure 1.1:** The effects of Irradiance levels on Productivity

**Question 1B**

As light photons enter the ocean they are attenuated with depth. The sun is over 90 million miles from earth so it is fascinating to look at Figure 1.2 and realize just how quickly these PAR Irradiance drops as you descend into the ocean. The figure shows that by about 100 meters down the ocean will be very dark with little light available for photosynthesis.

**Figure 1.2:** PAR Irradiance as a function of Depth

**Question 1C**

\*how do I get an equation to estimate the trapezoidal rule

**Question 1D**

**Question 1E**

24\*.29 mg C /m = 6.96

**Question 2**

Researchers in this experiment were looking at the effects of microzooplankton’s grazing impact on phytoplankton. They utilized a unique experimental design that allowed them to control the amount of grazers in controlled environments. The environments contained filtered water and unfiltered seawater with three sets of samples containing only seawater. Essentially, this would be like looking at the predation of rabbits by coyotes by controlling the number of coyotes in five separate enclosures. Rabbits are not primary producers but are in fact heterotrophs so this is not a perfect example. Another example would be the effects of sheep grazing on grasslands. Table 2 shows growth rates as a function of this seawater.

**Question 2A**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fraction of Seawater** | **Initial Chl-a** | **Final Chl-a** | **To** Ln(TfChl-a) | **Tf**  Ln(ToChl-a) | **Growth Rate (\*r)** |
| 0.1 | 0.035 | 0.088 | -3.352407217 | -2.430418465 | 92.20% |
| 0.1 | 0.035 | 0.081 | -3.352407217 | -2.513306124 | 83.91% |
| 0.1 | 0.035 | 0.078 | -3.352407217 | -2.551046452 | 80.14% |
| 0.25 | 0.088 | 0.172 | -2.430418465 | -1.760260802 | 67.02% |
| 0.25 | 0.088 | 0.16 | -2.430418465 | -1.832581464 | 59.78% |
| 0.25 | 0.088 | 0.193 | -2.430418465 | -1.64506509 | 78.54% |
| 0.5 | 0.175 | 0.321 | -1.742969305 | -1.136314156 | 60.67% |
| 0.5 | 0.175 | 0.255 | -1.742969305 | -1.366491734 | 37.65% |
| 0.5 | 0.175 | 0.298 | -1.742969305 | -1.210661792 | 53.23% |
| 0.75 | 0.263 | 0.385 | -1.335601247 | -0.954511945 | 38.11% |
| 0.75 | 0.263 | 0.362 | -1.335601247 | -1.016111067 | 31.95% |
| 0.75 | 0.263 | 0.395 | -1.335601247 | -0.928869514 | 40.67% |
| 1 | 0.3 | 0.4 | -1.203972804 | -0.916290732 | 28.77% |
| 1 | 0.3 | 0.43 | -1.203972804 | -0.84397007 | 36.00% |
| 1 | 0.3 | 0.45 | -1.203972804 | -0.798507696 | 40.55% |

**Table 2.1:** Growth rate as a function of microzooplankton grazing

**Question 2B**

The growth rate data as a function of seawater percentage is shown below with a y-intercept of .85 and a slope of -.56. The y-intercept is representative of the maximum growth rate of phytoplankton in the absence of grazing. The slope is the mortality from grazers or the effects that grazing by microzooplankton has on phytoplankton. The reason the slope is negative is that it is showing that in the presence of more predation the growth rate will lower.

**Figure 2.1:** Growth Rate of Phytoplankton as a Function of Seawater Concentration

In normal seawater the average growth rate is around 35% as can be seen in Table 2.2. From this we can estimate that around 60% of the primary producer phytoplankton is being consumed by microzooplankton.

|  |  |
| --- | --- |
| **Fraction Seawater** | **Growth Rate** |
| 1 | 28.77% |
| 1 | 36.00% |
| 1 | 40.55% |
| **Average** | **35.10%** |

**Table 2.1:** Average Growth Rate

**Question 2C**

\*not sure page 195

Subtropical gyre- efficient cycling system not a lot of nutrients to support larger class oligotrhopic

**Question 2D**

Light at 10 meters

|  |  |  |
| --- | --- | --- |
|  | **Growth Rate** |  |
| My Estimate (Problem 1) | 0.06368602676 |  |
| Problem 2 | ~0.360002734 |  |

Per day growth rate

**Question 3**

*Heterotrophic bacteria perform two major functions in the transformation of organic matter: They produce new bacterial biomass (bacterial secondary production [BP]), and they respire organic C to inorganic C (bacterial respiration [BR]). For planktonic bacteria, a great deal has been learned about BP and its regulation during the past several decades but far less has been learned about BR. Our lack of knowledge about BR limits our ability to understand the role of bacteria in the carbon cycle of aquatic ecosystems. Bacterial growth efficiency (BGE) is the amount of new bacterial biomass produced per unit of organic C substrate assimilated and is a way to relate BP and BR: BGE = (BP)/(BP + BR). Estimates of BGE for natural planktonic bacteria range from <0.05 to as high as 0.6, but little is known about what might regulate this enormous range. In this paper we review the physiological and ecological bases of the regulation of BGE. Further, we assemble the literature of the past 30 years for which both BP and BR were measured in natural planktonic ecosystems and explore the relationship between BGE and BP. Although the relationship is variable, BGE varies systematically with BP and the trophic richness of the ecosystem. In the most dilute, oligotrophic systems, BGE is as low as 0.01; in the most eutrophic systems, it plateaus near 0.5. Planktonic bacteria appear to maximize carbon utilization rather than BGE. A consequence of this strategy is that maintenance energy costs (and therefore maintenance respiration) seems to be highest in oligotrophic systems.*

**Question 3A**

**\*help**

We are looking at the change in Heterotrophic Bacteria over the course of six days. This occurs from Day 157 to 163 so over a span of 6 days which we see an increase in roughly 1 million cells due to the enrichment of iron.

**Part 1:** Slope of Line = (2-1.3)/6 =.12 cells / milliter \* day

**Part 2:** (1.25E6Cells/mL)\*(15E-15gC/cell)(1000mL/L)(1E6) = 18.75

**Part 3:** Biomass per Liter 18.75μgC/Liter

This means that because of the bloom there was a total biomass increase in hetertrophic bacteria of 18.75 μgC/Liter.

**Question 3B**

(18.75 μgC/Liter) \* BGE (.25) = 75μgC/Liter

The bacteria utilized 75μgC per Liter during this increase in biomass.

**Question 3C**

The total increase in phytoplankton carbon biomass during the bloom appears to have risen from about 25 μgC/Liter to 125 μgC/Liter for a total rise of about 100 μgC/Liter. The bacterial appeared to have utilized 75 μgC/Liter for their bloom that occurred slightly after the bloom of pythoplankton.

*Dissolved organic carbon (DOC) is defined as the organic matter that is able to pass through a filter (filters generally range in size between 0.7 and 0.22 um). Conversely, particulate organic carbon (POC) is that carbon that is too large and is filtered out of a sample.*

**Question 3D**

Respiration

Grazing

**Question 3E**

Grazing and microbial food procceses

Growth is controlled by

Nutrient supply

Temperature

Light level

pH

**Question 4**

\*Slides in 16

**Question 4A**

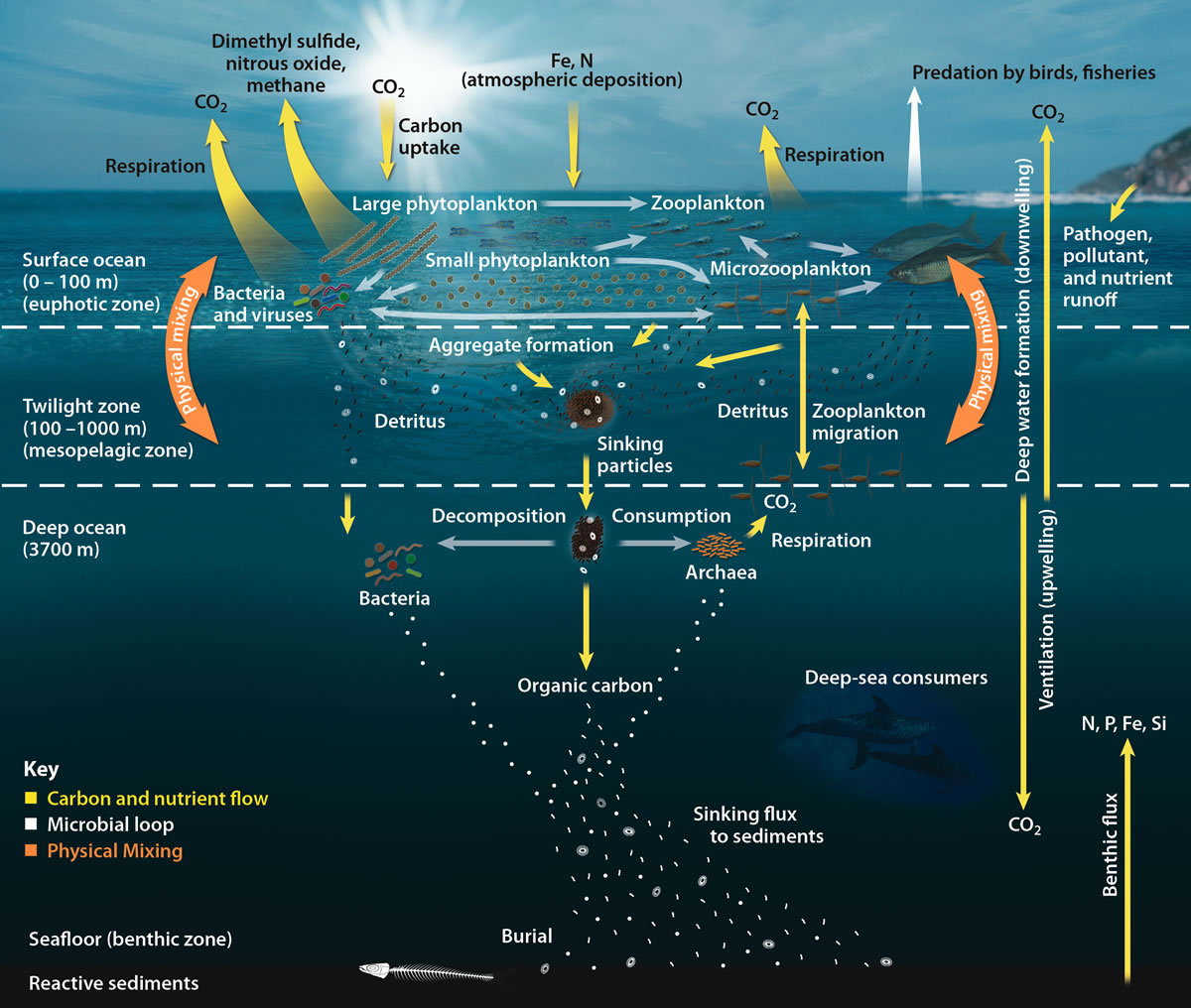
Sinking particulate matter is an important pathway for transporting carbon and other elements in the ocean. There are many different physical, chemical and biological processes that as they are sinking. Generally particles leaving the euphotic zone leave it as large and fairly fast sinking particles and are an important nutrient soure for benthic and pelagic organisms (Lee, 2004).

1. Mechanims
   1. Packaging
   2. Grazing
2. Nature of organic matter
   1. How it was produced
   2. Composition
   3. Why it sunk
3. Why carbon flux was higher in August

The general mechanism for this downward sinking flux is related to gravity. The nature of the organic matter is related to spring bloom dynamics that occur in the ocean and phytoplankton. Production is primarily related to the increase in PAR irradiance. There are a number of reason for why this carbon sunk to the bottom. One important thing is that there is a number of reason for this increased sinking flux.

increases is due to large portion of the phytoplankton that occur during blooms have a central water filled vacuole that has electrolytes relative to sea water that allows them to stay buoyant. During nutrient stress they begin to sink (Smetacek, 1985).

This bloom is occurring in the North Atlantic and usually will end with these large cells sinking to the bottom in days or weeks are a major organic flux. During this entire bloom many of the pythoplankton are eaten by mesozooplankton (Wheeler, 2012).The reason



**Question 4B**

1. Quantify Sinking
   1. Sediment Trap
2. Remineraliztion
   1. Measure respiration

**Question 4C**

1. Estimate of Growth Efficiencies
   1. Growth/Sinking flux
   2. Growth/(Growth + Reminersaliztion)
2. April
3. August
4. Quality of sinking matter is much lower in April then it is in August?
   1. They have a higher growth in efficenciy
   2. Higher quality food less energy to digest

**Appendix**

**Appendix 1.1:** Values Utilized to Calculate Primary Productivity

|  |  |  |
| --- | --- | --- |
|  | **Amount** | **Units** |
| **Ps** | 4.07 | mg\*C/m^3\*hr |
| **α** | 0.008 | mg\*C/m^3\*hr |
| **β** | 0.005 | mg\*C/m^3\*hr |

**Appendix 1.2:** Primary Productivity as a Function of PAR Irradiance

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ps** | **[1-exp(-αI/Ps)]** | **exp[-βI/Ps]** | **Irradiance (I)** | **Productivity** |
| 4.07 | 0 | 0.245700246 | 0 | 0.00000 |
| 4.07 | 0.00196 | 0.244474811 | 1 | 0.00195 |
| 4.07 | 0.00392 | 0.243255487 | 2 | 0.00390 |
| 4.07 | 0.00588 | 0.242042246 | 3 | 0.00579 |
| 4.07 | 0.00783 | 0.240835055 | 4 | 0.00770 |
| 4.07 | 0.00978 | 0.239633885 | 5 | 0.00954 |
| 4.07 | 0.01172 | 0.238438706 | 6 | 0.01140 |
| 4.07 | 0.01366 | 0.237249488 | 7 | 0.01319 |
| 4.07 | 0.0156 | 0.236066201 | 8 | 0.01500 |
| 4.07 | 0.01753 | 0.234888816 | 9 | 0.01676 |
| 4.07 | 0.01946 | 0.233717303 | 10 | 0.01850 |
| 4.07 | 0.02139 | 0.232551633 | 11 | 0.02020 |
| 4.07 | 0.02331 | 0.231391777 | 12 | 0.02200 |
| 4.07 | 0.02523 | 0.230237706 | 13 | 0.02360 |
| 4.07 | 0.02714 | 0.229089391 | 14 | 0.02530 |
| 4.07 | 0.02905 | 0.227946803 | 15 | 0.02700 |
| 4.07 | 0.03096 | 0.226809913 | 16 | 0.02860 |
| 4.07 | 0.03286 | 0.225678694 | 17 | 0.03020 |
| 4.07 | 0.03476 | 0.224553117 | 18 | 0.03180 |
| 4.07 | 0.03666 | 0.223433153 | 19 | 0.03330 |
| 4.07 | 0.03855 | 0.222318776 | 20 | 0.03490 |
| 4.07 | 0.04044 | 0.221209956 | 21 | 0.03640 |
| 4.07 | 0.04232 | 0.220106667 | 22 | 0.03790 |
| 4.07 | 0.0442 | 0.219008881 | 23 | 0.03940 |
| 4.07 | 0.04608 | 0.217916569 | 24 | 0.04090 |
| 4.07 | 0.04795 | 0.216829706 | 25 | 0.04230 |
| 4.07 | 0.04982 | 0.215748263 | 26 | 0.04370 |
| 4.07 | 0.05169 | 0.214672214 | 27 | 0.04520 |
| 4.07 | 0.05355 | 0.213601532 | 28 | 0.04660 |
| 4.07 | 0.05541 | 0.21253619 | 29 | 0.04790 |
| 4.07 | 0.05726 | 0.211476161 | 30 | 0.04930 |
| 4.07 | 0.05911 | 0.21042142 | 31 | 0.05060 |
| 4.07 | 0.06096 | 0.209371938 | 32 | 0.05190 |
| 4.07 | 0.06281 | 0.208327691 | 33 | 0.05330 |
| 4.07 | 0.06465 | 0.207288653 | 34 | 0.05450 |
| 4.07 | 0.06648 | 0.206254796 | 35 | 0.05580 |
| 4.07 | 0.06832 | 0.205226096 | 36 | 0.05710 |
| 4.07 | 0.07015 | 0.204202527 | 37 | 0.05830 |
| 4.07 | 0.07197 | 0.203184062 | 38 | 0.05950 |
| 4.07 | 0.07379 | 0.202170678 | 39 | 0.06070 |
| 4.07 | 0.07561 | 0.201162347 | 40 | 0.06190 |
| 4.07 | 0.07743 | 0.200159046 | 41 | 0.06310 |
| 4.07 | 0.07924 | 0.199160748 | 42 | 0.06420 |
| 4.07 | 0.08105 | 0.19816743 | 43 | 0.06540 |
| 4.07 | 0.08285 | 0.197179066 | 44 | 0.06650 |
| 4.07 | 0.08465 | 0.196195631 | 45 | 0.06760 |
| 4.07 | 0.08645 | 0.195217101 | 46 | 0.06870 |
| 4.07 | 0.08824 | 0.194243452 | 47 | 0.06980 |
| 4.07 | 0.09003 | 0.193274659 | 48 | 0.07080 |
| 4.07 | 0.09182 | 0.192310697 | 49 | 0.07190 |
| 4.07 | 0.09361 | 0.191351544 | 50 | 0.07290 |
| 4.07 | 0.09538 | 0.190397174 | 51 | 0.07390 |
| 4.07 | 0.09716 | 0.189447564 | 52 | 0.07490 |
| 4.07 | 0.09893 | 0.18850269 | 53 | 0.07590 |
| 4.07 | 0.1007 | 0.187562529 | 54 | 0.07690 |
| 4.07 | 0.10247 | 0.186627057 | 55 | 0.07780 |
| 4.07 | 0.10423 | 0.185696251 | 56 | 0.07880 |
| 4.07 | 0.10599 | 0.184770087 | 57 | 0.07970 |
| 4.07 | 0.10775 | 0.183848542 | 58 | 0.08060 |
| 4.07 | 0.1095 | 0.182931594 | 59 | 0.08150 |
| 4.07 | 0.11125 | 0.182019219 | 60 | 0.08240 |
| 4.07 | 0.11299 | 0.181111394 | 61 | 0.08330 |
| 4.07 | 0.11473 | 0.180208097 | 62 | 0.08420 |
| 4.07 | 0.11647 | 0.179309306 | 63 | 0.08500 |
| 4.07 | 0.11821 | 0.178414997 | 64 | 0.08580 |
| 4.07 | 0.11994 | 0.177525148 | 65 | 0.08670 |
| 4.07 | 0.12167 | 0.176639738 | 66 | 0.08750 |
| 4.07 | 0.12339 | 0.175758744 | 67 | 0.08830 |
| 4.07 | 0.12511 | 0.174882143 | 68 | 0.08910 |
| 4.07 | 0.12683 | 0.174009915 | 69 | 0.08980 |
| 4.07 | 0.12855 | 0.173142037 | 70 | 0.09060 |
| 4.07 | 0.13026 | 0.172278487 | 71 | 0.09130 |
| 4.07 | 0.13197 | 0.171419245 | 72 | 0.09210 |
| 4.07 | 0.13367 | 0.170564288 | 73 | 0.09280 |
| 4.07 | 0.13537 | 0.169713595 | 74 | 0.09350 |
| 4.07 | 0.13707 | 0.168867145 | 75 | 0.09420 |
| 4.07 | 0.13876 | 0.168024916 | 76 | 0.09490 |
| 4.07 | 0.14045 | 0.167186889 | 77 | 0.09560 |
| 4.07 | 0.14214 | 0.16635304 | 78 | 0.09620 |
| 4.07 | 0.14383 | 0.165523351 | 79 | 0.09690 |
| 4.07 | 0.14551 | 0.1646978 | 80 | 0.09750 |
| 4.07 | 0.14719 | 0.163876366 | 81 | 0.09820 |
| 4.07 | 0.14886 | 0.16305903 | 82 | 0.09880 |
| 4.07 | 0.15053 | 0.162245769 | 83 | 0.09940 |
| 4.07 | 0.1522 | 0.161436565 | 84 | 0.10000 |
| 4.07 | 0.15386 | 0.160631397 | 85 | 0.10060 |
| 4.07 | 0.15553 | 0.159830244 | 86 | 0.10120 |
| 4.07 | 0.15718 | 0.159033088 | 87 | 0.10170 |
| 4.07 | 0.15884 | 0.158239907 | 88 | 0.10230 |
| 4.07 | 0.16049 | 0.157450682 | 89 | 0.10280 |
| 4.07 | 0.16214 | 0.156665394 | 90 | 0.10340 |
| 4.07 | 0.16379 | 0.155884022 | 91 | 0.10390 |
| 4.07 | 0.16543 | 0.155106547 | 92 | 0.10440 |
| 4.07 | 0.16707 | 0.15433295 | 93 | 0.10490 |
| 4.07 | 0.1687 | 0.153563211 | 94 | 0.10540 |
| 4.07 | 0.17033 | 0.152797311 | 95 | 0.10590 |
| 4.07 | 0.17196 | 0.152035231 | 96 | 0.10640 |
| 4.07 | 0.17359 | 0.151276953 | 97 | 0.10690 |
| 4.07 | 0.17521 | 0.150522456 | 98 | 0.10730 |
| 4.07 | 0.17683 | 0.149771722 | 99 | 0.10780 |
| 4.07 | 0.17845 | 0.149024732 | 100 | 0.10820 |
| 4.07 | 0.18006 | 0.148281468 | 101 | 0.10870 |
| 4.07 | 0.18167 | 0.147541911 | 102 | 0.10910 |
| 4.07 | 0.18328 | 0.146806043 | 103 | 0.10950 |
| 4.07 | 0.18488 | 0.146073845 | 104 | 0.10990 |
| 4.07 | 0.18648 | 0.145345298 | 105 | 0.11030 |
| 4.07 | 0.18808 | 0.144620386 | 106 | 0.11070 |
| 4.07 | 0.18967 | 0.143899089 | 107 | 0.11110 |
| 4.07 | 0.19127 | 0.143181389 | 108 | 0.11150 |
| 4.07 | 0.19285 | 0.142467269 | 109 | 0.11180 |
| 4.07 | 0.19444 | 0.14175671 | 110 | 0.11220 |
| 4.07 | 0.19602 | 0.141049696 | 111 | 0.11250 |
| 4.07 | 0.1976 | 0.140346207 | 112 | 0.11290 |
| 4.07 | 0.19918 | 0.139646228 | 113 | 0.11320 |
| 4.07 | 0.20075 | 0.138949739 | 114 | 0.11350 |
| 4.07 | 0.20232 | 0.138256725 | 115 | 0.11380 |
| 4.07 | 0.20388 | 0.137567166 | 116 | 0.11420 |
| 4.07 | 0.20545 | 0.136881047 | 117 | 0.11450 |
| 4.07 | 0.20701 | 0.13619835 | 118 | 0.11470 |
| 4.07 | 0.20856 | 0.135519058 | 119 | 0.11500 |
| 4.07 | 0.21012 | 0.134843154 | 120 | 0.11530 |
| 4.07 | 0.21167 | 0.134170621 | 121 | 0.11560 |
| 4.07 | 0.21322 | 0.133501442 | 122 | 0.11590 |
| 4.07 | 0.21476 | 0.132835601 | 123 | 0.11610 |
| 4.07 | 0.2163 | 0.132173081 | 124 | 0.11640 |
| 4.07 | 0.21784 | 0.131513865 | 125 | 0.11660 |
| 4.07 | 0.21938 | 0.130857936 | 126 | 0.11680 |
| 4.07 | 0.22091 | 0.13020528 | 127 | 0.11710 |
| 4.07 | 0.22244 | 0.129555878 | 128 | 0.11730 |
| 4.07 | 0.22397 | 0.128909716 | 129 | 0.11750 |
| 4.07 | 0.22549 | 0.128266776 | 130 | 0.11770 |
| 4.07 | 0.22701 | 0.127627042 | 131 | 0.11790 |
| 4.07 | 0.22853 | 0.1269905 | 132 | 0.11810 |
| 4.07 | 0.23005 | 0.126357132 | 133 | 0.11830 |
| 4.07 | 0.23156 | 0.125726923 | 134 | 0.11850 |
| 4.07 | 0.23307 | 0.125099858 | 135 | 0.11870 |
| 4.07 | 0.23457 | 0.12447592 | 136 | 0.11880 |
| 4.07 | 0.23608 | 0.123855093 | 137 | 0.11900 |
| 4.07 | 0.23758 | 0.123237363 | 138 | 0.11920 |
| 4.07 | 0.23907 | 0.122622715 | 139 | 0.11930 |
| 4.07 | 0.24057 | 0.122011131 | 140 | 0.11950 |
| 4.07 | 0.24206 | 0.121402598 | 141 | 0.11960 |
| 4.07 | 0.24355 | 0.1207971 | 142 | 0.11970 |
| 4.07 | 0.24503 | 0.120194622 | 143 | 0.11990 |
| 4.07 | 0.24652 | 0.119595149 | 144 | 0.12000 |
| 4.07 | 0.24799 | 0.118998666 | 145 | 0.12010 |
| 4.07 | 0.24947 | 0.118405157 | 146 | 0.12020 |
| 4.07 | 0.25095 | 0.117814609 | 147 | 0.12030 |
| 4.07 | 0.25242 | 0.117227006 | 148 | 0.12040 |
| 4.07 | 0.25388 | 0.116642334 | 149 | 0.12050 |
| 4.07 | 0.25535 | 0.116060578 | 150 | 0.12060 |
| 4.07 | 0.25681 | 0.115481724 | 151 | 0.12070 |
| 4.07 | 0.25827 | 0.114905756 | 152 | 0.12080 |
| 4.07 | 0.25973 | 0.114332661 | 153 | 0.12090 |
| 4.07 | 0.26118 | 0.113762425 | 154 | 0.12090 |
| 4.07 | 0.26263 | 0.113195032 | 155 | 0.12100 |
| 4.07 | 0.26408 | 0.11263047 | 156 | 0.12110 |
| 4.07 | 0.26553 | 0.112068723 | 157 | 0.12110 |
| 4.07 | 0.26697 | 0.111509778 | 158 | 0.12120 |
| 4.07 | 0.26841 | 0.11095362 | 159 | 0.12120 |
| 4.07 | 0.26984 | 0.110400237 | 160 | 0.12120 |
| 4.07 | 0.27128 | 0.109849613 | 161 | 0.12130 |
| 4.07 | 0.27271 | 0.109301736 | 162 | 0.12130 |
| 4.07 | 0.27414 | 0.108756592 | 163 | 0.12130 |
| 4.07 | 0.27556 | 0.108214166 | 164 | 0.12140 |
| 4.07 | 0.27698 | 0.107674445 | 165 | 0.12140 |
| 4.07 | 0.2784 | 0.107137417 | 166 | 0.12140 |
| 4.07 | 0.27982 | 0.106603067 | 167 | 0.12140 |
| 4.07 | 0.28124 | 0.106071382 | 168 | 0.12140 |
| 4.07 | 0.28265 | 0.105542349 | 169 | 0.12140 |
| 4.07 | 0.28406 | 0.105015954 | 170 | 0.12140 |
| 4.07 | 0.28546 | 0.104492185 | 171 | 0.12140 |
| 4.07 | 0.28686 | 0.103971028 | 172 | 0.12140 |
| 4.07 | 0.28826 | 0.10345247 | 173 | 0.12140 |
| 4.07 | 0.28966 | 0.102936499 | 174 | 0.12140 |
| 4.07 | 0.29106 | 0.102423101 | 175 | 0.12130 |
| 4.07 | 0.29245 | 0.101912263 | 176 | 0.12130 |
| 4.07 | 0.29384 | 0.101403974 | 177 | 0.12130 |
| 4.07 | 0.29523 | 0.100898219 | 178 | 0.12120 |
| 4.07 | 0.29661 | 0.100394987 | 179 | 0.12120 |
| 4.07 | 0.29799 | 0.099894265 | 180 | 0.12120 |
| 4.07 | 0.29937 | 0.099396041 | 181 | 0.12110 |
| 4.07 | 0.30074 | 0.098900301 | 182 | 0.12110 |
| 4.07 | 0.30212 | 0.098407033 | 183 | 0.12100 |
| 4.07 | 0.30349 | 0.097916226 | 184 | 0.12090 |
| 4.07 | 0.30486 | 0.097427867 | 185 | 0.12090 |
| 4.07 | 0.30622 | 0.096941944 | 186 | 0.12080 |
| 4.07 | 0.30758 | 0.096458444 | 187 | 0.12080 |
| 4.07 | 0.30894 | 0.095977355 | 188 | 0.12070 |
| 4.07 | 0.3103 | 0.095498666 | 189 | 0.12060 |
| 4.07 | 0.31165 | 0.095022364 | 190 | 0.12050 |
| 4.07 | 0.31301 | 0.094548438 | 191 | 0.12040 |
| 4.07 | 0.31436 | 0.094076876 | 192 | 0.12040 |
| 4.07 | 0.3157 | 0.093607666 | 193 | 0.12030 |
| 4.07 | 0.31705 | 0.093140796 | 194 | 0.12020 |
| 4.07 | 0.31839 | 0.092676254 | 195 | 0.12010 |
| 4.07 | 0.31972 | 0.092214029 | 196 | 0.12000 |
| 4.07 | 0.32106 | 0.09175411 | 197 | 0.11990 |
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| 4.07 | 0.32372 | 0.090841141 | 199 | 0.11970 |
| 4.07 | 0.32505 | 0.090388069 | 200 | 0.11960 |
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| 4.07 | 0.3277 | 0.089488693 | 202 | 0.11940 |
| 4.07 | 0.32902 | 0.089042366 | 203 | 0.11920 |
| 4.07 | 0.33034 | 0.088598265 | 204 | 0.11910 |
| 4.07 | 0.33165 | 0.08815638 | 205 | 0.11900 |
| 4.07 | 0.33297 | 0.087716698 | 206 | 0.11890 |
| 4.07 | 0.33428 | 0.087279209 | 207 | 0.11870 |
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| 4.07 | 0.33819 | 0.085979791 | 210 | 0.11830 |
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| 4.07 | 0.34337 | 0.084277277 | 214 | 0.11780 |
| 4.07 | 0.34466 | 0.083856942 | 215 | 0.11760 |
| 4.07 | 0.34595 | 0.083438704 | 216 | 0.11750 |
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| 4.07 | 0.34852 | 0.082608475 | 218 | 0.11720 |
| 4.07 | 0.34979 | 0.082196464 | 219 | 0.11700 |
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| 4.07 | 0.35235 | 0.081378595 | 221 | 0.11670 |
| 4.07 | 0.35362 | 0.080972718 | 222 | 0.11650 |
| 4.07 | 0.35489 | 0.080568865 | 223 | 0.11640 |
| 4.07 | 0.35615 | 0.080167026 | 224 | 0.11620 |
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| 4.07 | 0.35868 | 0.07936935 | 226 | 0.11590 |
| 4.07 | 0.35994 | 0.078973494 | 227 | 0.11570 |
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| 4.07 | 0.36245 | 0.078187695 | 229 | 0.11530 |
| 4.07 | 0.3637 | 0.077797732 | 230 | 0.11520 |
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| 4.07 | 0.36744 | 0.076639475 | 233 | 0.11460 |
| 4.07 | 0.36869 | 0.076257234 | 234 | 0.11440 |
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| 4.07 | 0.38219 | 0.072176339 | 245 | 0.11230 |
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| 4.07 | 0.38461 | 0.071458173 | 247 | 0.11190 |
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| 4.07 | 0.38823 | 0.070394299 | 250 | 0.11120 |
| 4.07 | 0.38943 | 0.070043206 | 251 | 0.11100 |
| 4.07 | 0.39063 | 0.069693864 | 252 | 0.11080 |
| 4.07 | 0.39183 | 0.069346264 | 253 | 0.11060 |
| 4.07 | 0.39302 | 0.069000398 | 254 | 0.11040 |
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| 4.07 | 0.42553 | 0.059986065 | 282 | 0.10390 |
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| 4.07 | 0.43002 | 0.058798261 | 286 | 0.10290 |
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| 4.07 | 0.43338 | 0.057922869 | 289 | 0.10220 |
| 4.07 | 0.43449 | 0.057633977 | 290 | 0.10190 |
| 4.07 | 0.4356 | 0.057346527 | 291 | 0.10170 |
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| 4.07 | 0.43781 | 0.056775919 | 293 | 0.10120 |
| 4.07 | 0.43892 | 0.056492748 | 294 | 0.10090 |
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| 4.07 | 0.44112 | 0.055930636 | 296 | 0.10040 |
| 4.07 | 0.44222 | 0.055651681 | 297 | 0.10020 |
| 4.07 | 0.44331 | 0.055374117 | 298 | 0.09990 |
| 4.07 | 0.4444 | 0.055097937 | 299 | 0.09970 |
| 4.07 | 0.4455 | 0.054823135 | 300 | 0.09940 |
| 4.07 | 0.44658 | 0.054549704 | 301 | 0.09910 |
| 4.07 | 0.44767 | 0.054277636 | 302 | 0.09890 |
| 4.07 | 0.44876 | 0.054006925 | 303 | 0.09860 |
| 4.07 | 0.44984 | 0.053737564 | 304 | 0.09840 |
| 4.07 | 0.45092 | 0.053469547 | 305 | 0.09810 |
| 4.07 | 0.452 | 0.053202867 | 306 | 0.09790 |
| 4.07 | 0.45307 | 0.052937516 | 307 | 0.09760 |
| 4.07 | 0.45415 | 0.052673489 | 308 | 0.09740 |
| 4.07 | 0.45522 | 0.052410779 | 309 | 0.09710 |
| 4.07 | 0.45629 | 0.052149379 | 310 | 0.09680 |
| 4.07 | 0.45736 | 0.051889283 | 311 | 0.09660 |
| 4.07 | 0.45842 | 0.051630484 | 312 | 0.09630 |
| 4.07 | 0.45949 | 0.051372976 | 313 | 0.09610 |
| 4.07 | 0.46055 | 0.051116752 | 314 | 0.09580 |
| 4.07 | 0.46161 | 0.050861807 | 315 | 0.09560 |
| 4.07 | 0.46266 | 0.050608132 | 316 | 0.09530 |
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| 4.07 | 0.46477 | 0.050104573 | 318 | 0.09480 |
| 4.07 | 0.46582 | 0.049854675 | 319 | 0.09450 |
| 4.07 | 0.46687 | 0.049606024 | 320 | 0.09430 |
| 4.07 | 0.46792 | 0.049358613 | 321 | 0.09400 |
| 4.07 | 0.46896 | 0.049112436 | 322 | 0.09370 |
| 4.07 | 0.47001 | 0.048867487 | 323 | 0.09350 |
| 4.07 | 0.47105 | 0.048623759 | 324 | 0.09320 |
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| 4.07 | 0.50036 | 0.042060636 | 353 | 0.08570 |
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| 4.07 | 0.6323 | 0.019280848 | 509 | 0.04960 |
| 4.07 | 0.63302 | 0.019184685 | 510 | 0.04940 |
| 4.07 | 0.63374 | 0.019089001 | 511 | 0.04920 |
| 4.07 | 0.63446 | 0.018993794 | 512 | 0.04900 |
| 4.07 | 0.63518 | 0.018899062 | 513 | 0.04890 |
| 4.07 | 0.6359 | 0.018804802 | 514 | 0.04870 |
| 4.07 | 0.63661 | 0.018711013 | 515 | 0.04850 |
| 4.07 | 0.63733 | 0.018617691 | 516 | 0.04830 |
| 4.07 | 0.63804 | 0.018524835 | 517 | 0.04810 |
| 4.07 | 0.63875 | 0.018432442 | 518 | 0.04790 |
| 4.07 | 0.63946 | 0.01834051 | 519 | 0.04770 |
| 4.07 | 0.64017 | 0.018249036 | 520 | 0.04750 |
| 4.07 | 0.64087 | 0.018158019 | 521 | 0.04740 |
| 4.07 | 0.64158 | 0.018067455 | 522 | 0.04720 |
| 4.07 | 0.64228 | 0.017977344 | 523 | 0.04700 |
| 4.07 | 0.64298 | 0.017887681 | 524 | 0.04680 |
| 4.07 | 0.64369 | 0.017798466 | 525 | 0.04660 |
| 4.07 | 0.64439 | 0.017709696 | 526 | 0.04640 |
| 4.07 | 0.64508 | 0.017621368 | 527 | 0.04630 |
| 4.07 | 0.64578 | 0.017533481 | 528 | 0.04610 |
| 4.07 | 0.64648 | 0.017446033 | 529 | 0.04590 |
| 4.07 | 0.64717 | 0.01735902 | 530 | 0.04570 |
| 4.07 | 0.64786 | 0.017272442 | 531 | 0.04550 |
| 4.07 | 0.64855 | 0.017186295 | 532 | 0.04540 |
| 4.07 | 0.64924 | 0.017100578 | 533 | 0.04520 |
| 4.07 | 0.64993 | 0.017015289 | 534 | 0.04500 |
| 4.07 | 0.65062 | 0.016930425 | 535 | 0.04480 |
| 4.07 | 0.65131 | 0.016845984 | 536 | 0.04470 |
| 4.07 | 0.65199 | 0.016761964 | 537 | 0.04450 |
| 4.07 | 0.65267 | 0.016678363 | 538 | 0.04430 |
| 4.07 | 0.65336 | 0.01659518 | 539 | 0.04410 |
| 4.07 | 0.65404 | 0.016512411 | 540 | 0.04400 |
| 4.07 | 0.65472 | 0.016430055 | 541 | 0.04380 |
| 4.07 | 0.65539 | 0.01634811 | 542 | 0.04360 |
| 4.07 | 0.65607 | 0.016266573 | 543 | 0.04340 |
| 4.07 | 0.65675 | 0.016185443 | 544 | 0.04330 |
| 4.07 | 0.65742 | 0.016104718 | 545 | 0.04310 |
| 4.07 | 0.65809 | 0.016024396 | 546 | 0.04290 |
| 4.07 | 0.65877 | 0.015944473 | 547 | 0.04270 |
| 4.07 | 0.65944 | 0.01586495 | 548 | 0.04260 |
| 4.07 | 0.6601 | 0.015785823 | 549 | 0.04240 |
| 4.07 | 0.66077 | 0.015707091 | 550 | 0.04220 |
| 4.07 | 0.66144 | 0.015628752 | 551 | 0.04210 |
| 4.07 | 0.6621 | 0.015550803 | 552 | 0.04190 |
| 4.07 | 0.66277 | 0.015473243 | 553 | 0.04170 |
| 4.07 | 0.66343 | 0.01539607 | 554 | 0.04160 |
| 4.07 | 0.66409 | 0.015319282 | 555 | 0.04140 |
| 4.07 | 0.66475 | 0.015242877 | 556 | 0.04120 |
| 4.07 | 0.66541 | 0.015166852 | 557 | 0.04110 |
| 4.07 | 0.66606 | 0.015091207 | 558 | 0.04090 |
| 4.07 | 0.66672 | 0.01501594 | 559 | 0.04070 |
| 4.07 | 0.66737 | 0.014941047 | 560 | 0.04060 |
| 4.07 | 0.66803 | 0.014866529 | 561 | 0.04040 |
| 4.07 | 0.66868 | 0.014792381 | 562 | 0.04030 |
| 4.07 | 0.66933 | 0.014718604 | 563 | 0.04010 |
| 4.07 | 0.66998 | 0.014645195 | 564 | 0.03990 |
| 4.07 | 0.67063 | 0.014572152 | 565 | 0.03980 |
| 4.07 | 0.67127 | 0.014499473 | 566 | 0.03960 |
| 4.07 | 0.67192 | 0.014427156 | 567 | 0.03950 |
| 4.07 | 0.67256 | 0.0143552 | 568 | 0.03930 |
| 4.07 | 0.67321 | 0.014283604 | 569 | 0.03910 |
| 4.07 | 0.67385 | 0.014212364 | 570 | 0.03900 |
| 4.07 | 0.67449 | 0.014141479 | 571 | 0.03880 |
| 4.07 | 0.67513 | 0.014070948 | 572 | 0.03870 |
| 4.07 | 0.67577 | 0.014000769 | 573 | 0.03850 |
| 4.07 | 0.6764 | 0.01393094 | 574 | 0.03840 |
| 4.07 | 0.67704 | 0.013861459 | 575 | 0.03820 |
| 4.07 | 0.67767 | 0.013792325 | 576 | 0.03800 |
| 4.07 | 0.67831 | 0.013723536 | 577 | 0.03790 |
| 4.07 | 0.67894 | 0.013655089 | 578 | 0.03770 |
| 4.07 | 0.67957 | 0.013586984 | 579 | 0.03760 |
| 4.07 | 0.6802 | 0.013519219 | 580 | 0.03740 |
| 4.07 | 0.68082 | 0.013451791 | 581 | 0.03730 |
| 4.07 | 0.68145 | 0.0133847 | 582 | 0.03710 |
| 4.07 | 0.68208 | 0.013317944 | 583 | 0.03700 |
| 4.07 | 0.6827 | 0.01325152 | 584 | 0.03680 |
| 4.07 | 0.68332 | 0.013185428 | 585 | 0.03670 |
| 4.07 | 0.68395 | 0.013119665 | 586 | 0.03650 |
| 4.07 | 0.68457 | 0.013054231 | 587 | 0.03640 |
| 4.07 | 0.68519 | 0.012989123 | 588 | 0.03620 |
| 4.07 | 0.6858 | 0.012924339 | 589 | 0.03610 |
| 4.07 | 0.68642 | 0.012859879 | 590 | 0.03590 |
| 4.07 | 0.68704 | 0.01279574 | 591 | 0.03580 |
| 4.07 | 0.68765 | 0.012731921 | 592 | 0.03560 |
| 4.07 | 0.68827 | 0.01266842 | 593 | 0.03550 |
| 4.07 | 0.68888 | 0.012605236 | 594 | 0.03530 |
| 4.07 | 0.68949 | 0.012542367 | 595 | 0.03520 |
| 4.07 | 0.6901 | 0.012479812 | 596 | 0.03510 |
| 4.07 | 0.69071 | 0.012417568 | 597 | 0.03490 |
| 4.07 | 0.69131 | 0.012355636 | 598 | 0.03480 |
| 4.07 | 0.69192 | 0.012294012 | 599 | 0.03460 |
| 4.07 | 0.69252 | 0.012232695 | 600 | 0.03450 |
| 4.07 | 0.69313 | 0.012171684 | 601 | 0.03430 |
| 4.07 | 0.69373 | 0.012110978 | 602 | 0.03420 |
| 4.07 | 0.69433 | 0.012050574 | 603 | 0.03410 |
| 4.07 | 0.69493 | 0.011990471 | 604 | 0.03390 |
| 4.07 | 0.69553 | 0.011930669 | 605 | 0.03380 |
| 4.07 | 0.69613 | 0.011871164 | 606 | 0.03360 |
| 4.07 | 0.69673 | 0.011811956 | 607 | 0.03350 |
| 4.07 | 0.69732 | 0.011753044 | 608 | 0.03340 |
| 4.07 | 0.69792 | 0.011694426 | 609 | 0.03320 |
| 4.07 | 0.69851 | 0.011636099 | 610 | 0.03310 |
| 4.07 | 0.6991 | 0.011578064 | 611 | 0.03290 |
| 4.07 | 0.69969 | 0.011520318 | 612 | 0.03280 |
| 4.07 | 0.70028 | 0.01146286 | 613 | 0.03270 |
| 4.07 | 0.70087 | 0.011405689 | 614 | 0.03250 |
| 4.07 | 0.70146 | 0.011348803 | 615 | 0.03240 |
| 4.07 | 0.70204 | 0.011292201 | 616 | 0.03230 |
| 4.07 | 0.70263 | 0.011235881 | 617 | 0.03210 |
| 4.07 | 0.70321 | 0.011179841 | 618 | 0.03200 |
| 4.07 | 0.7038 | 0.011124082 | 619 | 0.03190 |
| 4.07 | 0.70438 | 0.0110686 | 620 | 0.03170 |
| 4.07 | 0.70496 | 0.011013395 | 621 | 0.03160 |
| 4.07 | 0.70554 | 0.010958466 | 622 | 0.03150 |
| 4.07 | 0.70612 | 0.01090381 | 623 | 0.03130 |
| 4.07 | 0.70669 | 0.010849427 | 624 | 0.03120 |
| 4.07 | 0.70727 | 0.010795315 | 625 | 0.03110 |
| 4.07 | 0.70784 | 0.010741474 | 626 | 0.03090 |
| 4.07 | 0.70842 | 0.0106879 | 627 | 0.03080 |
| 4.07 | 0.70899 | 0.010634594 | 628 | 0.03070 |
| 4.07 | 0.70956 | 0.010581554 | 629 | 0.03060 |
| 4.07 | 0.71013 | 0.010528778 | 630 | 0.03040 |
| 4.07 | 0.7107 | 0.010476266 | 631 | 0.03030 |
| 4.07 | 0.71127 | 0.010424015 | 632 | 0.03020 |
| 4.07 | 0.71184 | 0.010372025 | 633 | 0.03000 |
| 4.07 | 0.7124 | 0.010320294 | 634 | 0.02990 |
| 4.07 | 0.71297 | 0.010268822 | 635 | 0.02980 |
| 4.07 | 0.71353 | 0.010217606 | 636 | 0.02970 |
| 4.07 | 0.71409 | 0.010166645 | 637 | 0.02950 |
| 4.07 | 0.71465 | 0.010115939 | 638 | 0.02940 |
| 4.07 | 0.71521 | 0.010065485 | 639 | 0.02930 |
| 4.07 | 0.71577 | 0.010015284 | 640 | 0.02920 |
| 4.07 | 0.71633 | 0.009965332 | 641 | 0.02910 |
| 4.07 | 0.71689 | 0.00991563 | 642 | 0.02890 |
| 4.07 | 0.71745 | 0.009866175 | 643 | 0.02880 |
| 4.07 | 0.718 | 0.009816968 | 644 | 0.02870 |
| 4.07 | 0.71855 | 0.009768005 | 645 | 0.02860 |
| 4.07 | 0.71911 | 0.009719287 | 646 | 0.02840 |
| 4.07 | 0.71966 | 0.009670812 | 647 | 0.02830 |
| 4.07 | 0.72021 | 0.009622579 | 648 | 0.02820 |
| 4.07 | 0.72076 | 0.009574586 | 649 | 0.02810 |
| 4.07 | 0.72131 | 0.009526832 | 650 | 0.02800 |
| 4.07 | 0.72185 | 0.009479317 | 651 | 0.02780 |
| 4.07 | 0.7224 | 0.009432039 | 652 | 0.02770 |
| 4.07 | 0.72294 | 0.009384996 | 653 | 0.02760 |
| 4.07 | 0.72349 | 0.009338188 | 654 | 0.02750 |
| 4.07 | 0.72403 | 0.009291614 | 655 | 0.02740 |
| 4.07 | 0.72457 | 0.009245272 | 656 | 0.02730 |
| 4.07 | 0.72511 | 0.009199161 | 657 | 0.02710 |
| 4.07 | 0.72565 | 0.00915328 | 658 | 0.02700 |
| 4.07 | 0.72619 | 0.009107628 | 659 | 0.02690 |
| 4.07 | 0.72673 | 0.009062203 | 660 | 0.02680 |
| 4.07 | 0.72727 | 0.009017005 | 661 | 0.02670 |
| 4.07 | 0.7278 | 0.008972033 | 662 | 0.02660 |
| 4.07 | 0.72834 | 0.008927285 | 663 | 0.02650 |
| 4.07 | 0.72887 | 0.00888276 | 664 | 0.02640 |
| 4.07 | 0.7294 | 0.008838457 | 665 | 0.02620 |
| 4.07 | 0.72993 | 0.008794375 | 666 | 0.02610 |
| 4.07 | 0.73046 | 0.008750513 | 667 | 0.02600 |
| 4.07 | 0.73099 | 0.008706869 | 668 | 0.02590 |
| 4.07 | 0.73152 | 0.008663444 | 669 | 0.02580 |
| 4.07 | 0.73205 | 0.008620234 | 670 | 0.02570 |
| 4.07 | 0.73258 | 0.008577241 | 671 | 0.02560 |
| 4.07 | 0.7331 | 0.008534462 | 672 | 0.02550 |
| 4.07 | 0.73362 | 0.008491896 | 673 | 0.02540 |
| 4.07 | 0.73415 | 0.008449542 | 674 | 0.02520 |
| 4.07 | 0.73467 | 0.0084074 | 675 | 0.02510 |
| 4.07 | 0.73519 | 0.008365468 | 676 | 0.02500 |
| 4.07 | 0.73571 | 0.008323745 | 677 | 0.02490 |
| 4.07 | 0.73623 | 0.00828223 | 678 | 0.02480 |
| 4.07 | 0.73675 | 0.008240922 | 679 | 0.02470 |
| 4.07 | 0.73726 | 0.008199821 | 680 | 0.02460 |
| 4.07 | 0.73778 | 0.008158924 | 681 | 0.02450 |
| 4.07 | 0.7383 | 0.008118231 | 682 | 0.02440 |
| 4.07 | 0.73881 | 0.008077741 | 683 | 0.02430 |
| 4.07 | 0.73932 | 0.008037453 | 684 | 0.02420 |
| 4.07 | 0.73983 | 0.007997366 | 685 | 0.02410 |
| 4.07 | 0.74035 | 0.007957479 | 686 | 0.02400 |
| 4.07 | 0.74086 | 0.007917791 | 687 | 0.02390 |
| 4.07 | 0.74136 | 0.007878301 | 688 | 0.02380 |
| 4.07 | 0.74187 | 0.007839008 | 689 | 0.02370 |
| 4.07 | 0.74238 | 0.007799911 | 690 | 0.02360 |
| 4.07 | 0.74288 | 0.007761008 | 691 | 0.02350 |
| 4.07 | 0.74339 | 0.0077223 | 692 | 0.02340 |
| 4.07 | 0.74389 | 0.007683785 | 693 | 0.02330 |
| 4.07 | 0.7444 | 0.007645462 | 694 | 0.02320 |
| 4.07 | 0.7449 | 0.00760733 | 695 | 0.02310 |
| 4.07 | 0.7454 | 0.007569388 | 696 | 0.02300 |
| 4.07 | 0.7459 | 0.007531636 | 697 | 0.02290 |
| 4.07 | 0.7464 | 0.007494072 | 698 | 0.02280 |
| 4.07 | 0.7469 | 0.007456695 | 699 | 0.02270 |
| 4.07 | 0.74739 | 0.007419505 | 700 | 0.02260 |
| 4.07 | 0.74789 | 0.0073825 | 701 | 0.02250 |
| 4.07 | 0.74838 | 0.007345679 | 702 | 0.02240 |
| 4.07 | 0.74888 | 0.007309042 | 703 | 0.02230 |
| 4.07 | 0.74937 | 0.007272588 | 704 | 0.02220 |
| 4.07 | 0.74986 | 0.007236316 | 705 | 0.02210 |
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| 4.07 | 0.75085 | 0.007164314 | 707 | 0.02190 |
| 4.07 | 0.75133 | 0.007128582 | 708 | 0.02180 |
| 4.07 | 0.75182 | 0.007093028 | 709 | 0.02170 |
| 4.07 | 0.75231 | 0.007057651 | 710 | 0.02160 |
| 4.07 | 0.7528 | 0.007022451 | 711 | 0.02150 |
| 4.07 | 0.75328 | 0.006987426 | 712 | 0.02140 |
| 4.07 | 0.75377 | 0.006952576 | 713 | 0.02130 |
| 4.07 | 0.75425 | 0.0069179 | 714 | 0.02120 |
| 4.07 | 0.75473 | 0.006883397 | 715 | 0.02110 |
| 4.07 | 0.75521 | 0.006849066 | 716 | 0.02110 |
| 4.07 | 0.75569 | 0.006814906 | 717 | 0.02100 |
| 4.07 | 0.75617 | 0.006780917 | 718 | 0.02090 |
| 4.07 | 0.75665 | 0.006747097 | 719 | 0.02080 |
| 4.07 | 0.75713 | 0.006713445 | 720 | 0.02070 |
| 4.07 | 0.75761 | 0.006679962 | 721 | 0.02060 |
| 4.07 | 0.75808 | 0.006646645 | 722 | 0.02050 |
| 4.07 | 0.75856 | 0.006613495 | 723 | 0.02040 |
| 4.07 | 0.75903 | 0.00658051 | 724 | 0.02030 |
| 4.07 | 0.75951 | 0.00654769 | 725 | 0.02020 |
| 4.07 | 0.75998 | 0.006515033 | 726 | 0.02020 |
| 4.07 | 0.76045 | 0.006482539 | 727 | 0.02010 |
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| 4.07 | 0.76139 | 0.006418037 | 729 | 0.01990 |
| 4.07 | 0.76186 | 0.006386027 | 730 | 0.01980 |
| 4.07 | 0.76233 | 0.006354176 | 731 | 0.01970 |
| 4.07 | 0.76279 | 0.006322485 | 732 | 0.01960 |
| 4.07 | 0.76326 | 0.006290951 | 733 | 0.01950 |
| 4.07 | 0.76372 | 0.006259575 | 734 | 0.01950 |
| 4.07 | 0.76419 | 0.006228355 | 735 | 0.01940 |
| 4.07 | 0.76465 | 0.006197291 | 736 | 0.01930 |
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| 4.07 | 0.76557 | 0.006135627 | 738 | 0.01910 |
| 4.07 | 0.76603 | 0.006105025 | 739 | 0.01900 |
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| 4.07 | 0.76695 | 0.006044279 | 741 | 0.01890 |
| 4.07 | 0.76741 | 0.006014133 | 742 | 0.01880 |
| 4.07 | 0.76787 | 0.005984138 | 743 | 0.01870 |
| 4.07 | 0.76832 | 0.005954292 | 744 | 0.01860 |
| 4.07 | 0.76878 | 0.005924595 | 745 | 0.01850 |
| 4.07 | 0.76923 | 0.005895046 | 746 | 0.01850 |
| 4.07 | 0.76968 | 0.005865644 | 747 | 0.01840 |
| 4.07 | 0.77014 | 0.005836389 | 748 | 0.01830 |
| 4.07 | 0.77059 | 0.00580728 | 749 | 0.01820 |
| 4.07 | 0.77104 | 0.005778316 | 750 | 0.01810 |
| 4.07 | 0.77149 | 0.005749496 | 751 | 0.01810 |
| 4.07 | 0.77194 | 0.005720821 | 752 | 0.01800 |
| 4.07 | 0.77238 | 0.005692288 | 753 | 0.01790 |
| 4.07 | 0.77283 | 0.005663898 | 754 | 0.01780 |
| 4.07 | 0.77328 | 0.005635649 | 755 | 0.01770 |
| 4.07 | 0.77372 | 0.005607541 | 756 | 0.01770 |
| 4.07 | 0.77417 | 0.005579573 | 757 | 0.01760 |
| 4.07 | 0.77461 | 0.005551745 | 758 | 0.01750 |
| 4.07 | 0.77505 | 0.005524055 | 759 | 0.01740 |
| 4.07 | 0.7755 | 0.005496504 | 760 | 0.01730 |
| 4.07 | 0.77594 | 0.00546909 | 761 | 0.01730 |
| 4.07 | 0.77638 | 0.005441813 | 762 | 0.01720 |
| 4.07 | 0.77682 | 0.005414672 | 763 | 0.01710 |
| 4.07 | 0.77725 | 0.005387666 | 764 | 0.01700 |
| 4.07 | 0.77769 | 0.005360795 | 765 | 0.01700 |
| 4.07 | 0.77813 | 0.005334058 | 766 | 0.01690 |
| 4.07 | 0.77856 | 0.005307454 | 767 | 0.01680 |
| 4.07 | 0.779 | 0.005280983 | 768 | 0.01670 |
| 4.07 | 0.77943 | 0.005254644 | 769 | 0.01670 |
| 4.07 | 0.77986 | 0.005228436 | 770 | 0.01660 |
| 4.07 | 0.7803 | 0.00520236 | 771 | 0.01650 |
| 4.07 | 0.78073 | 0.005176413 | 772 | 0.01640 |
| 4.07 | 0.78116 | 0.005150595 | 773 | 0.01640 |
| 4.07 | 0.78159 | 0.005124906 | 774 | 0.01630 |
| 4.07 | 0.78202 | 0.005099346 | 775 | 0.01620 |
| 4.07 | 0.78245 | 0.005073913 | 776 | 0.01620 |
| 4.07 | 0.78287 | 0.005048607 | 777 | 0.01610 |
| 4.07 | 0.7833 | 0.005023427 | 778 | 0.01600 |
| 4.07 | 0.78372 | 0.004998372 | 779 | 0.01590 |
| 4.07 | 0.78415 | 0.004973443 | 780 | 0.01590 |
| 4.07 | 0.78457 | 0.004948637 | 781 | 0.01580 |
| 4.07 | 0.785 | 0.004923956 | 782 | 0.01570 |
| 4.07 | 0.78542 | 0.004899398 | 783 | 0.01570 |
| 4.07 | 0.78584 | 0.004874962 | 784 | 0.01560 |
| 4.07 | 0.78626 | 0.004850648 | 785 | 0.01550 |
| 4.07 | 0.78668 | 0.004826455 | 786 | 0.01550 |
| 4.07 | 0.7871 | 0.004802383 | 787 | 0.01540 |
| 4.07 | 0.78752 | 0.004778431 | 788 | 0.01530 |
| 4.07 | 0.78793 | 0.004754599 | 789 | 0.01520 |
| 4.07 | 0.78835 | 0.004730885 | 790 | 0.01520 |
| 4.07 | 0.78877 | 0.00470729 | 791 | 0.01510 |
| 4.07 | 0.78918 | 0.004683812 | 792 | 0.01500 |
| 4.07 | 0.7896 | 0.004660451 | 793 | 0.01500 |
| 4.07 | 0.79001 | 0.004637207 | 794 | 0.01490 |
| 4.07 | 0.79042 | 0.004614079 | 795 | 0.01480 |
| 4.07 | 0.79083 | 0.004591066 | 796 | 0.01480 |
| 4.07 | 0.79124 | 0.004568168 | 797 | 0.01470 |
| 4.07 | 0.79165 | 0.004545384 | 798 | 0.01460 |
| 4.07 | 0.79206 | 0.004522714 | 799 | 0.01460 |
| 4.07 | 0.79247 | 0.004500157 | 800 | 0.01450 |
| 4.07 | 0.79288 | 0.004477712 | 801 | 0.01440 |
| 4.07 | 0.79328 | 0.00445538 | 802 | 0.01440 |
| 4.07 | 0.79369 | 0.004433158 | 803 | 0.01430 |
| 4.07 | 0.7941 | 0.004411048 | 804 | 0.01430 |
| 4.07 | 0.7945 | 0.004389048 | 805 | 0.01420 |
| 4.07 | 0.7949 | 0.004367157 | 806 | 0.01410 |
| 4.07 | 0.79531 | 0.004345376 | 807 | 0.01410 |
| 4.07 | 0.79571 | 0.004323703 | 808 | 0.01400 |
| 4.07 | 0.79611 | 0.004302139 | 809 | 0.01390 |
| 4.07 | 0.79651 | 0.004280682 | 810 | 0.01390 |
| 4.07 | 0.79691 | 0.004259332 | 811 | 0.01380 |
| 4.07 | 0.79731 | 0.004238088 | 812 | 0.01380 |
| 4.07 | 0.79771 | 0.004216951 | 813 | 0.01370 |
| 4.07 | 0.7981 | 0.004195919 | 814 | 0.01360 |
| 4.07 | 0.7985 | 0.004174991 | 815 | 0.01360 |
| 4.07 | 0.7989 | 0.004154168 | 816 | 0.01350 |
| 4.07 | 0.79929 | 0.004133449 | 817 | 0.01340 |
| 4.07 | 0.79968 | 0.004112834 | 818 | 0.01340 |
| 4.07 | 0.80008 | 0.004092321 | 819 | 0.01330 |
| 4.07 | 0.80047 | 0.00407191 | 820 | 0.01330 |
| 4.07 | 0.80086 | 0.004051602 | 821 | 0.01320 |
| 4.07 | 0.80125 | 0.004031394 | 822 | 0.01310 |
| 4.07 | 0.80164 | 0.004011288 | 823 | 0.01310 |
| 4.07 | 0.80203 | 0.003991281 | 824 | 0.01300 |
| 4.07 | 0.80242 | 0.003971375 | 825 | 0.01300 |
| 4.07 | 0.80281 | 0.003951567 | 826 | 0.01290 |
| 4.07 | 0.8032 | 0.003931859 | 827 | 0.01290 |
| 4.07 | 0.80358 | 0.003912249 | 828 | 0.01280 |
| 4.07 | 0.80397 | 0.003892736 | 829 | 0.01270 |
| 4.07 | 0.80435 | 0.003873321 | 830 | 0.01270 |
| 4.07 | 0.80474 | 0.003854003 | 831 | 0.01260 |
| 4.07 | 0.80512 | 0.003834781 | 832 | 0.01260 |
| 4.07 | 0.8055 | 0.003815655 | 833 | 0.01250 |
| 4.07 | 0.80589 | 0.003796624 | 834 | 0.01250 |
| 4.07 | 0.80627 | 0.003777688 | 835 | 0.01240 |
| 4.07 | 0.80665 | 0.003758847 | 836 | 0.01230 |
| 4.07 | 0.80703 | 0.0037401 | 837 | 0.01230 |
| 4.07 | 0.80741 | 0.003721446 | 838 | 0.01220 |
| 4.07 | 0.80778 | 0.003702885 | 839 | 0.01220 |
| 4.07 | 0.80816 | 0.003684417 | 840 | 0.01210 |
| 4.07 | 0.80854 | 0.003666041 | 841 | 0.01210 |
| 4.07 | 0.80891 | 0.003647756 | 842 | 0.01200 |
| 4.07 | 0.80929 | 0.003629563 | 843 | 0.01200 |
| 4.07 | 0.80966 | 0.003611461 | 844 | 0.01190 |
| 4.07 | 0.81004 | 0.003593448 | 845 | 0.01180 |
| 4.07 | 0.81041 | 0.003575526 | 846 | 0.01180 |
| 4.07 | 0.81078 | 0.003557693 | 847 | 0.01170 |
| 4.07 | 0.81116 | 0.003539949 | 848 | 0.01170 |
| 4.07 | 0.81153 | 0.003522293 | 849 | 0.01160 |
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| 4.07 | 0.81227 | 0.003487246 | 851 | 0.01150 |
| 4.07 | 0.81263 | 0.003469853 | 852 | 0.01150 |
| 4.07 | 0.813 | 0.003452547 | 853 | 0.01140 |
| 4.07 | 0.81337 | 0.003435328 | 854 | 0.01140 |
| 4.07 | 0.81374 | 0.003418194 | 855 | 0.01130 |
| 4.07 | 0.8141 | 0.003401145 | 856 | 0.01130 |
| 4.07 | 0.81447 | 0.003384182 | 857 | 0.01120 |
| 4.07 | 0.81483 | 0.003367304 | 858 | 0.01120 |
| 4.07 | 0.81519 | 0.003350509 | 859 | 0.01110 |
| 4.07 | 0.81556 | 0.003333798 | 860 | 0.01110 |
| 4.07 | 0.81592 | 0.003317171 | 861 | 0.01100 |
| 4.07 | 0.81628 | 0.003300626 | 862 | 0.01100 |
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| 4.07 | 0.817 | 0.003267785 | 864 | 0.01090 |
| 4.07 | 0.81736 | 0.003251487 | 865 | 0.01080 |
| 4.07 | 0.81772 | 0.00323527 | 866 | 0.01080 |
| 4.07 | 0.81808 | 0.003219134 | 867 | 0.01070 |
| 4.07 | 0.81844 | 0.003203078 | 868 | 0.01070 |
| 4.07 | 0.81879 | 0.003187103 | 869 | 0.01060 |
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| 4.07 | 0.82021 | 0.003123994 | 873 | 0.01040 |
| 4.07 | 0.82056 | 0.003108413 | 874 | 0.01040 |
| 4.07 | 0.82092 | 0.00309291 | 875 | 0.01030 |
| 4.07 | 0.82127 | 0.003077484 | 876 | 0.01030 |
| 4.07 | 0.82162 | 0.003062135 | 877 | 0.01020 |
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| 4.07 | 0.82232 | 0.003031666 | 879 | 0.01010 |
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| 4.07 | 0.82336 | 0.00298653 | 882 | 0.01000 |
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| 4.07 | 0.82782 | 0.00279858 | 895 | 0.00940 |
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| 4.07 | 0.82917 | 0.002743165 | 899 | 0.00930 |
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| 4.07 | 0.84209 | 0.002245913 | 939 | 0.00770 |
| 4.07 | 0.8424 | 0.002234712 | 940 | 0.00770 |
| 4.07 | 0.8427 | 0.002223566 | 941 | 0.00760 |
| 4.07 | 0.84301 | 0.002212476 | 942 | 0.00760 |
| 4.07 | 0.84332 | 0.002201441 | 943 | 0.00760 |
| 4.07 | 0.84363 | 0.002190462 | 944 | 0.00750 |
| 4.07 | 0.84394 | 0.002179537 | 945 | 0.00750 |
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| 4.07 | 0.84455 | 0.00215785 | 947 | 0.00740 |
| 4.07 | 0.84485 | 0.002147088 | 948 | 0.00740 |
| 4.07 | 0.84516 | 0.002136379 | 949 | 0.00730 |
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| 4.07 | 0.84607 | 0.002104572 | 952 | 0.00720 |
| 4.07 | 0.84637 | 0.002094076 | 953 | 0.00720 |
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| 4.07 | 0.84727 | 0.002062899 | 956 | 0.00710 |
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| 4.07 | 0.84817 | 0.002032186 | 959 | 0.00700 |
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| 4.07 | 0.84877 | 0.002011966 | 961 | 0.00700 |
| 4.07 | 0.84907 | 0.002001931 | 962 | 0.00690 |
| 4.07 | 0.84936 | 0.001991946 | 963 | 0.00690 |
| 4.07 | 0.84966 | 0.001982012 | 964 | 0.00690 |
| 4.07 | 0.84995 | 0.001972126 | 965 | 0.00680 |
| 4.07 | 0.85025 | 0.00196229 | 966 | 0.00680 |
| 4.07 | 0.85054 | 0.001952503 | 967 | 0.00680 |
| 4.07 | 0.85084 | 0.001942765 | 968 | 0.00670 |
| 4.07 | 0.85113 | 0.001933076 | 969 | 0.00670 |
| 4.07 | 0.85142 | 0.001923434 | 970 | 0.00670 |
| 4.07 | 0.85171 | 0.001913841 | 971 | 0.00660 |
| 4.07 | 0.852 | 0.001904296 | 972 | 0.00660 |
| 4.07 | 0.85229 | 0.001894798 | 973 | 0.00660 |
| 4.07 | 0.85258 | 0.001885348 | 974 | 0.00650 |
| 4.07 | 0.85287 | 0.001875945 | 975 | 0.00650 |
| 4.07 | 0.85316 | 0.001866588 | 976 | 0.00650 |
| 4.07 | 0.85345 | 0.001857279 | 977 | 0.00650 |
| 4.07 | 0.85374 | 0.001848015 | 978 | 0.00640 |
| 4.07 | 0.85403 | 0.001838798 | 979 | 0.00640 |
| 4.07 | 0.85431 | 0.001829627 | 980 | 0.00640 |
| 4.07 | 0.8546 | 0.001820502 | 981 | 0.00630 |
| 4.07 | 0.85488 | 0.001811422 | 982 | 0.00630 |
| 4.07 | 0.85517 | 0.001802388 | 983 | 0.00630 |
| 4.07 | 0.85545 | 0.001793398 | 984 | 0.00620 |
| 4.07 | 0.85574 | 0.001784454 | 985 | 0.00620 |
| 4.07 | 0.85602 | 0.001775554 | 986 | 0.00620 |
| 4.07 | 0.8563 | 0.001766698 | 987 | 0.00620 |
| 4.07 | 0.85659 | 0.001757887 | 988 | 0.00610 |
| 4.07 | 0.85687 | 0.001749119 | 989 | 0.00610 |
| 4.07 | 0.85715 | 0.001740395 | 990 | 0.00610 |
| 4.07 | 0.85743 | 0.001731715 | 991 | 0.00600 |
| 4.07 | 0.85771 | 0.001723078 | 992 | 0.00600 |
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| 4.07 | 0.85827 | 0.001705933 | 994 | 0.00600 |
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| 4.07 | 0.85882 | 0.001688959 | 996 | 0.00590 |
| 4.07 | 0.8591 | 0.001680535 | 997 | 0.00590 |
| 4.07 | 0.85938 | 0.001672153 | 998 | 0.00580 |
| 4.07 | 0.85965 | 0.001663814 | 999 | 0.00580 |
| 4.07 | 0.85993 | 0.001655515 | 1000 | 0.00580 |