**Name : Rara Kinandha Ningrum**

**Student Number : L200154004**

**QUESTION :**

1. f = 5Hz, phase = 45’

2. f = 5Hz, phase = 120’

3. f = 10Hz, phase = 45’

4. f = 10Hz, phase = 120’

**Explanation :**

A = 5, Phase = 45, f = 50, t = 0,01

S(t) = A\*sin(360 \* f \* t + phase)

f = 5 hz, p = 45

|  |  |  |  |
| --- | --- | --- | --- |
|  | **x** | **sin** | **s(t)** |
| 0 | 45 | 0.850903525 | 4.254517623 |
| 10 | 180045 | 0.319330363 | 1.596651814 |
| 20 | 360045 | -0.359430289 | -1.797151447 |
| 30 | 540045 | -0.872520375 | -4.362601873 |
| 40 | 720045 | -0.983443615 | -4.917218076 |
| 50 | 900045 | -0.641072667 | -3.205363336 |
| 60 | 1080045 | -0.003215013 | -0.016075065 |
| 70 | 1260045 | 0.636124523 | 3.180622613 |
| 80 | 1440045 | 0.982258078 | 4.911290388 |
| 90 | 1620045 | 0.875643889 | 4.378219443 |
| 100 | 1800045 | 0.365423148 | 1.82711574 |
| 110 | 1980045 | -0.313230421 | -1.566152104 |
| 120 | 2160045 | -0.847508118 | -4.237540588 |
| 130 | 2340045 | -0.991147756 | -4.955738778 |
| 140 | 2520045 | -0.677942171 | -3.389710854 |
| 150 | 2700045 | -0.052255787 | -0.261278936 |
| 160 | 2880045 | 0.597516619 | 2.987583093 |
| 170 | 3060045 | 0.971878409 | 4.859392046 |
| 180 | 3240045 | 0.898276709 | 4.491383545 |
| 190 | 3420045 | 0.410636414 | 2.053182072 |
| 200 | 3600045 | -0.266276653 | -1.331383267 |
| 210 | 3780045 | -0.820456035 | -4.102280177 |
| 220 | 3960045 | -0.996466352 | -4.98233176 |
| 230 | 4140045 | -0.713179969 | -3.565899845 |
| 240 | 4320045 | -0.101170789 | -0.505853947 |
| 250 | 4500045 | 0.557470582 | 2.787352908 |
| 260 | 4680045 | 0.959159575 | 4.795797875 |
| 270 | 4860045 | 0.918747512 | 4.59373756 |
| 280 | 5040045 | 0.45486134 | 2.274306702 |
| 290 | 5220045 | -0.218681998 | -1.09340999 |
| 300 | 5400045 | -0.791429239 | -3.957146194 |
| 310 | 5580045 | -0.999386603 | -4.996933016 |
| 320 | 5760045 | -0.74670125 | -3.73350625 |
| 330 | 5940045 | -0.149842289 | -0.749211444 |
| 340 | 6120045 | 0.516082796 | 2.580413982 |
| 350 | 6300045 | 0.944132188 | 4.720660938 |
| 360 | 6480045 | 0.937007027 | 4.685035137 |
| 370 | 6660045 | 0.497991483 | 2.489957417 |
| 380 | 6840045 | -0.170561008 | -0.85280504 |
| 390 | 7020045 | -0.76049759 | -3.802487952 |
| 400 | 7200045 | -0.99990148 | -4.999507402 |
| 410 | 7380045 | -0.778425333 | -3.892126665 |
| 420 | 7560045 | -0.19815314 | -0.990765701 |
| 430 | 7740045 | 0.473452877 | 2.367264387 |
| 440 | 7920045 | 0.926832416 | 4.634162078 |
| 450 | 8100045 | 0.953011307 | 4.765056537 |
| 460 | 8280045 | 0.539923036 | 2.699615178 |
| 470 | 8460045 | -0.122029503 | -0.610147515 |
| 480 | 8640045 | -0.727735538 | -3.638677692 |
| 490 | 8820045 | -0.998009745 | -4.990048724 |
| 500 | 9000045 | -0.808275863 | -4.041379314 |
| 510 | 9180045 | -0.245987067 | -1.229935333 |
| 520 | 9360045 | 0.429683428 | 2.148417142 |
| 530 | 9540045 | 0.907301897 | 4.536509483 |
| 540 | 9720045 | 0.966721832 | 4.83360916 |
| 550 | 9900045 | 0.580555074 | 2.90277537 |
| 560 | 10080045 | -0.073204291 | -0.366021457 |
| 570 | 10260045 | -0.693221936 | -3.46610968 |
| 580 | 10440045 | -0.993715949 | -4.968579747 |
| 590 | 10620045 | -0.836180994 | -4.180904969 |
| 600 | 10800045 | -0.293228939 | -1.466144696 |
| 610 | 10980045 | 0.384879796 | 1.924398978 |
| 620 | 11160045 | 0.885587638 | 4.427938191 |
| 630 | 11340045 | 0.978105602 | 4.89052801 |
| 640 | 11520045 | 0.619789803 | 3.098949017 |
| 650 | 11700045 | -0.024202888 | -0.12101444 |
| 660 | 11880045 | -0.657039852 | -3.285199262 |
| 670 | 12060045 | -0.987030429 | -4.935152143 |
| 680 | 12240045 | -0.862073562 | -4.310367812 |
| 690 | 12420045 | -0.339765054 | -1.698825268 |
| 700 | 12600045 | 0.339149815 | 1.695749074 |
| 710 | 12780045 | 0.861741903 | 4.308709515 |
| 720 | 12960045 | 0.987135219 | 4.935676093 |
| 730 | 13140045 | 0.657532792 | 3.287663958 |
| 740 | 13320045 | 0.024856768 | 0.12428384 |
| 750 | 13500045 | -0.619276372 | -3.096381861 |
| 760 | 13680045 | -0.977969273 | -4.889846367 |
| 770 | 13860045 | -0.885891249 | -4.429456247 |
| 780 | 14040045 | -0.385483404 | -1.927417022 |
| 790 | 14220045 | 0.292603551 | 1.463017757 |
| 800 | 14400045 | 0.835822084 | 4.179110421 |
| 810 | 14580045 | 0.993788948 | 4.968944742 |
| 820 | 14760045 | 0.693693197 | 3.468465984 |
| 830 | 14940045 | 0.073856598 | 0.369282988 |
| 840 | 15120045 | -0.580022387 | -2.900111934 |
| 850 | 15300045 | -0.966554293 | -4.832771464 |
| 860 | 15480045 | -0.907576729 | -4.537883643 |
| 870 | 15660045 | -0.430273954 | -2.151369772 |
| 880 | 15840045 | 0.245353035 | 1.226765175 |
| 890 | 16020045 | 0.807890567 | 4.039452834 |
| 900 | 16200045 | 0.998050777 | 4.990253887 |
| 910 | 16380045 | 0.728183987 | 3.640919933 |
| 920 | 16560045 | 0.122678666 | 0.613393328 |
| 930 | 16740045 | -0.539372374 | -2.696861871 |
| 940 | 16920045 | -0.952812961 | -4.764064805 |
| 950 | 17100045 | -0.927077807 | -4.635389035 |
| 960 | 17280045 | -0.4740289 | -2.370144498 |
| 970 | 17460045 | 0.197511991 | 0.987559953 |
| 980 | 17640045 | 0.778014578 | 3.89007289 |
| 990 | 17820045 | 0.999910448 | 4.999552238 |
| 1000 | 18000045 | 0.760922147 | 3.804610733 |

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**f = 5 hz, p = 120**

|  |  |  |  |
| --- | --- | --- | --- |
| **t** | **x** | **sin** | **s(t)** |
| 0 | 120 | 0.580611184 | 2.903055921 |
| 1 | 18120 | -0.649119157 | -3.245595784 |
| 2 | 36120 | -0.895370138 | -4.476850691 |
| 3 | 54120 | 0.214952694 | 1.07476347 |
| 4 | 72120 | 0.999601056 | 4.998005278 |
| 5 | 90120 | 0.269755513 | 1.348777565 |
| 6 | 108120 | -0.868796161 | -4.343980803 |
| 7 | 126120 | -0.69103621 | -3.45518105 |
| 8 | 144120 | 0.533711558 | 2.66855779 |
| 9 | 162120 | 0.949833828 | 4.749169142 |
| 10 | 180120 | -0.073135562 | -0.365677809 |
| 11 | 198120 | -0.985297383 | -4.926486917 |
| 12 | 216120 | -0.404636771 | -2.023183855 |
| 13 | 234120 | 0.789088343 | 3.945441715 |
| 14 | 252120 | 0.787267015 | 3.936335076 |
| 15 | 270120 | -0.407341264 | -2.036706318 |
| 16 | 288120 | -0.984787469 | -4.923937343 |
| 17 | 306120 | -0.070183811 | -0.350919053 |
| 18 | 324120 | 0.950755222 | 4.753776112 |
| 19 | 342120 | 0.531206592 | 2.656032962 |
| 20 | 360120 | -0.693172266 | -3.465861331 |
| 21 | 378120 | -0.867326972 | -4.336634861 |
| 22 | 396120 | 0.272603981 | 1.363019905 |
| 23 | 414120 | 0.999513094 | 4.99756547 |
| 24 | 432120 | 0.212061573 | 1.060307867 |
| 25 | 450120 | -0.896684086 | -4.48342043 |
| 26 | 468120 | -0.646865172 | -3.234325858 |
| 27 | 486120 | 0.583018093 | 2.915090465 |
| 28 | 504120 | 0.92957161 | 4.647858052 |
| 29 | 522120 | -0.13226728 | -0.661336399 |
| 30 | 540120 | -0.993708233 | -4.968541167 |
| 31 | 558120 | -0.349583488 | -1.74791744 |
| 32 | 576120 | 0.824194621 | 4.120973106 |
| 33 | 594120 | 0.749236825 | 3.746184123 |
| 34 | 612120 | -0.460888444 | -2.304442221 |
| 35 | 630120 | -0.972722394 | -4.863611972 |
| 36 | 648120 | -0.010786256 | -0.053931279 |
| 37 | 666120 | 0.967492121 | 4.837460606 |
| 38 | 684120 | 0.479924787 | 2.399623937 |
| 39 | 702120 | -0.734775797 | -3.673878985 |
| 40 | 720120 | -0.836218788 | -4.181093941 |
| 41 | 738120 | 0.329291922 | 1.646459609 |
| 42 | 756120 | 0.995892986 | 4.979464932 |
| 43 | 774120 | 0.153618236 | 0.768091182 |
| 44 | 792120 | -0.921403249 | -4.607016246 |
| 45 | 810120 | -0.600408198 | -3.002040988 |
| 46 | 828120 | 0.63026432 | 3.151321599 |
| 47 | 846120 | 0.90602441 | 4.53012205 |
| 48 | 864120 | -0.190931583 | -0.954657915 |
| 49 | 882120 | -0.998607451 | -4.993037254 |
| 50 | 900120 | -0.293294824 | -1.466474118 |
| 51 | 918120 | 0.856388305 | 4.281941526 |
| 52 | 936120 | 0.708558931 | 3.542794655 |
| 53 | 954120 | -0.512806906 | -2.564034532 |
| 54 | 972120 | -0.957219849 | -4.786099245 |
| 55 | 990120 | 0.048649416 | 0.243247082 |
| 56 | 1008120 | 0.980810032 | 4.904050158 |
| 57 | 1026120 | 0.426946992 | 2.13473496 |
| 58 | 1044120 | -0.773782728 | -3.868913641 |
| 59 | 1062120 | -0.802155518 | -4.010777591 |
| 60 | 1080120 | 0.384816189 | 1.924080945 |
| 61 | 1098120 | 0.988753526 | 4.943767628 |
| 62 | 1116120 | 0.094632033 | 0.473160165 |
| 63 | 1134120 | -0.942866296 | -4.71433148 |
| 64 | 1152120 | -0.551829461 | -2.759147306 |
| 65 | 1170120 | 0.675283276 | 3.376416382 |
| 66 | 1188120 | 0.87927544 | 4.396377201 |
| 67 | 1206120 | -0.248921159 | -1.244605797 |
| 68 | 1224120 | -0.999977723 | -4.999888613 |
| 69 | 1242120 | -0.235969694 | -1.179848471 |
| 70 | 1260120 | 0.885555627 | 4.427778136 |
| 71 | 1278120 | 0.665377084 | 3.326885421 |
| 72 | 1296120 | -0.562913177 | -2.814565886 |
| 73 | 1314120 | -0.938334616 | -4.69167308 |
| 74 | 1332120 | 0.107913168 | 0.53956584 |
| 75 | 1350120 | 0.99066189 | 4.95330945 |
| 76 | 1368120 | 0.372460423 | 1.862302115 |
| 77 | 1386120 | -0.810055214 | -4.05027607 |
| 78 | 1404120 | -0.765257538 | -3.826287688 |
| 79 | 1422120 | 0.438980567 | 2.194902834 |
| 80 | 1440120 | 0.978119941 | 4.890599707 |
| 81 | 1458120 | 0.035311413 | 0.176557063 |
| 82 | 1476120 | -0.960997379 | -4.804986895 |
| 83 | 1494120 | -0.501300633 | -2.506503165 |
| 84 | 1512120 | 0.717915872 | 3.58957936 |
| 85 | 1530120 | 0.849419228 | 4.247096141 |
| 86 | 1548120 | -0.306031082 | -1.530155408 |
| 87 | 1566120 | -0.997814206 | -4.989071032 |
| 88 | 1584120 | -0.177810679 | -0.889053397 |
| 89 | 1602120 | 0.911593514 | 4.557967568 |
| 90 | 1620120 | 0.619843884 | 3.099219418 |
| 91 | 1638120 | -0.611030188 | -3.055150939 |
| 92 | 1656120 | -0.916133434 | -4.580667168 |
| 93 | 1674120 | 0.166795569 | 0.833977844 |
| 94 | 1692120 | 0.997012881 | 4.985064406 |
| 95 | 1710120 | 0.316657628 | 1.583288141 |
| 96 | 1728120 | -0.843465073 | -4.217325364 |
| 97 | 1746120 | -0.725655239 | -3.628276194 |
| 98 | 1764120 | 0.491593646 | 2.457968229 |
| 99 | 1782120 | 0.964029812 | 4.820149059 |
| 100 | 1800120 | -0.024133994 | -0.120669969 |

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**f = 10 hz, p = 45**

|  |  |  |  |
| --- | --- | --- | --- |
| **t** | **x** | **sin** | **s(t)** |
| 0 | 45 | 0.850903525 | 4.254517623 |
| 10 | 36045 | -0.99799653 | -4.989982652 |
| 20 | 72045 | 0.910430995 | 4.552154976 |
| 30 | 108045 | -0.60879617 | -3.04398085 |
| 40 | 144045 | 0.164015335 | 0.820076675 |
| 50 | 180045 | 0.319330363 | 1.596651814 |
| 60 | 216045 | -0.727592035 | -3.637960175 |
| 70 | 252045 | 0.964775271 | 4.823876357 |
| 80 | 288045 | -0.975111269 | -4.875556343 |
| 90 | 324045 | 0.756169728 | 3.78084864 |
| 100 | 360045 | -0.359430289 | -1.797151447 |
| 110 | 396045 | -0.121821855 | -0.609109275 |
| 120 | 432045 | 0.574430073 | 2.872150367 |
| 130 | 468045 | -0.891972769 | -4.459863846 |
| 140 | 504045 | 0.99978625 | 4.998931252 |
| 150 | 540045 | -0.872520375 | -4.362601873 |
| 160 | 576045 | 0.540099118 | 2.70049559 |
| 170 | 612045 | -0.080684563 | -0.403422817 |
| 180 | 648045 | -0.397701322 | -1.988506609 |
| 190 | 684045 | 0.782575848 | 3.912879239 |
| 200 | 720045 | -0.983443615 | -4.917218076 |
| 210 | 756045 | 0.953074663 | 4.765373316 |
| 220 | 792045 | -0.698609632 | -3.493048158 |
| 230 | 828045 | 0.279880786 | 1.399403928 |
| 240 | 864045 | 0.204656322 | 1.02328161 |
| 250 | 900045 | -0.641072667 | -3.205363336 |
| 260 | 936045 | 0.926753842 | 4.633769212 |
| 270 | 972045 | -0.994527743 | -4.972638713 |
| 280 | 1008045 | 0.828458716 | 4.142293582 |
| 290 | 1044045 | -0.467594511 | -2.337972553 |
| 300 | 1080045 | -0.003215013 | -0.016075065 |
| 310 | 1116045 | 0.473268592 | 2.366342959 |
| 320 | 1152045 | -0.832042708 | -4.160213542 |
| 330 | 1188045 | 0.995178943 | 4.975894713 |
| 340 | 1224045 | -0.924319134 | -4.62159567 |
| 350 | 1260045 | 0.636124523 | 3.180622613 |
| 360 | 1296045 | -0.198358196 | -0.991790982 |
| 370 | 1332045 | -0.286048016 | -1.430240082 |
| 380 | 1368045 | 0.703195869 | 3.515979344 |
| 390 | 1404045 | -0.955001547 | -4.775007734 |
| 400 | 1440045 | 0.982258078 | 4.911290388 |
| 410 | 1476045 | -0.778556644 | -3.89278322 |
| 420 | 1512045 | 0.391793486 | 1.958967429 |
| 430 | 1548045 | 0.087091924 | 0.435459622 |
| 440 | 1584045 | -0.545499444 | -2.727497219 |
| 450 | 1620045 | 0.875643889 | 4.378219443 |
| 460 | 1656045 | -0.999898522 | -4.99949261 |
| 470 | 1692045 | 0.8890474 | 4.445237 |
| 480 | 1728045 | -0.569154904 | -2.845774521 |
| 490 | 1764045 | 0.115437234 | 0.577186172 |
| 500 | 1800045 | 0.365423148 | 1.82711574 |
| 510 | 1836045 | -0.760361726 | -3.80180863 |
| 520 | 1872045 | 0.976516743 | 4.882583716 |
| 530 | 1908045 | -0.963063754 | -4.815318769 |
| 540 | 1944045 | 0.723165954 | 3.615829769 |
| 550 | 1980045 | -0.313230421 | -1.566152104 |
| 560 | 2016045 | -0.170354861 | -0.851774304 |
| 570 | 2052045 | 0.613884669 | 3.069423347 |
| 580 | 2088045 | -0.913072011 | -4.565360057 |
| 590 | 2124045 | 0.997569082 | 4.98784541 |
| 600 | 2160045 | -0.847508118 | -4.237540588 |
| 610 | 2196045 | 0.498172895 | 2.490864474 |
| 620 | 2232045 | -0.031702471 | -0.158512353 |
| 630 | 2268045 | -0.442222143 | -2.211110716 |
| 640 | 2304045 | 0.812167234 | 4.060836172 |
| 650 | 2340045 | -0.991147756 | -4.955738778 |
| 660 | 2376045 | 0.937080086 | 4.685400429 |
| 670 | 2412045 | -0.662677135 | -3.313385676 |
| 680 | 2448045 | 0.232459164 | 1.162295822 |
| 690 | 2484045 | 0.252416841 | 1.262084203 |
| 700 | 2520045 | -0.677942171 | -3.389710854 |
| 710 | 2556045 | 0.944063219 | 4.720316093 |
| 720 | 2592045 | -0.988207044 | -4.941035222 |
| 730 | 2628045 | 0.799994127 | 3.999970637 |
| 740 | 2664045 | -0.423678899 | -2.118394493 |
| 750 | 2700045 | -0.052255787 | -0.261278936 |
| 760 | 2736045 | 0.51590359 | 2.579517948 |
| 770 | 2772045 | -0.858247179 | -4.291235896 |
| 780 | 2808045 | 0.998791439 | 4.993957196 |
| 790 | 2844045 | -0.904490252 | -4.522451258 |
| 800 | 2880045 | 0.597516619 | 2.987583093 |
| 810 | 2916045 | -0.150049132 | -0.750245662 |
| 820 | 2952045 | -0.332699349 | -1.663496743 |
| 830 | 2988045 | 0.73722036 | 3.686101798 |
| 840 | 3024045 | -0.96839903 | -4.841995152 |
| 850 | 3060045 | 0.971878409 | 4.859392046 |
| 860 | 3096045 | -0.746840391 | -3.734201955 |
| 870 | 3132045 | 0.346198078 | 1.730990391 |
| 880 | 3168045 | 0.135845656 | 0.679228278 |
| 890 | 3204045 | -0.585948053 | -2.929740263 |
| 900 | 3240045 | 0.898276709 | 4.491383545 |
| 910 | 3276045 | -0.999393908 | -4.996969539 |
| 920 | 3312045 | 0.865524001 | 4.327620005 |
| 930 | 3348045 | -0.528143768 | -2.64071884 |
| 940 | 3384045 | 0.066581294 | 0.332906469 |
| 950 | 3420045 | 0.410636414 | 2.053182072 |
| 960 | 3456045 | -0.79130134 | -3.956506701 |
| 970 | 3492045 | 0.985907886 | 4.929539429 |
| 980 | 3528045 | -0.948698289 | -4.743491444 |
| 990 | 3564045 | 0.688421628 | 3.442108138 |
| 1000 | 3600045 | -0.266276653 | -1.331383267 |

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**f = 10 hz, p = 120**

|  |  |  |  |
| --- | --- | --- | --- |
| **t** | **x** | **sin** | **s(t)** |
| 0 | 120 | 0.580611184 | 2.903055921 |
| 10 | 36120 | -0.895370138 | -4.476850691 |
| 20 | 72120 | 0.999601056 | 4.998005278 |
| 30 | 108120 | -0.868796161 | -4.343980803 |
| 40 | 144120 | 0.533711558 | 2.66855779 |
| 50 | 180120 | -0.073135562 | -0.365677809 |
| 60 | 216120 | -0.404636771 | -2.023183855 |
| 70 | 252120 | 0.787267015 | 3.936335076 |
| 80 | 288120 | -0.984787469 | -4.923937343 |
| 90 | 324120 | 0.950755222 | 4.753776112 |
| 100 | 360120 | -0.693172266 | -3.465861331 |
| 110 | 396120 | 0.272603981 | 1.363019905 |
| 120 | 432120 | 0.212061573 | 1.060307867 |
| 130 | 468120 | -0.646865172 | -3.234325858 |
| 140 | 504120 | 0.92957161 | 4.647858052 |
| 150 | 540120 | -0.993708233 | -4.968541167 |
| 160 | 576120 | 0.824194621 | 4.120973106 |
| 170 | 612120 | -0.460888444 | -2.304442221 |
| 180 | 648120 | -0.010786256 | -0.053931279 |
| 190 | 684120 | 0.479924787 | 2.399623937 |
| 200 | 720120 | -0.836218788 | -4.181093941 |
| 210 | 756120 | 0.995892986 | 4.979464932 |
| 220 | 792120 | -0.921403249 | -4.607016246 |
| 230 | 828120 | 0.63026432 | 3.151321599 |
| 240 | 864120 | -0.190931583 | -0.954657915 |
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| 260 | 936120 | 0.708558931 | 3.542794655 |
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| 280 | 1008120 | 0.980810032 | 4.904050158 |
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| 300 | 1080120 | 0.384816189 | 1.924080945 |
| 310 | 1116120 | 0.094632033 | 0.473160165 |
| 320 | 1152120 | -0.551829461 | -2.759147306 |
| 330 | 1188120 | 0.87927544 | 4.396377201 |
| 340 | 1224120 | -0.999977723 | -4.999888613 |
| 350 | 1260120 | 0.885555627 | 4.427778136 |
| 360 | 1296120 | -0.562913177 | -2.814565886 |
| 370 | 1332120 | 0.107913168 | 0.53956584 |
| 380 | 1368120 | 0.372460423 | 1.862302115 |
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| 400 | 1440120 | 0.978119941 | 4.890599707 |
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| 420 | 1512120 | 0.717915872 | 3.58957936 |
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| 450 | 1620120 | 0.619843884 | 3.099219418 |
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| 480 | 1728120 | -0.843465073 | -4.217325364 |
| 490 | 1764120 | 0.491593646 | 2.457968229 |
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| 550 | 1980120 | -0.656987899 | -3.284939497 |
| 560 | 2016120 | 0.225088536 | 1.125442682 |
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| 580 | 2088120 | -0.683488571 | -3.417442855 |
| 590 | 2124120 | 0.946532929 | 4.732664646 |
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| 630 | 2268120 | -0.059815319 | -0.299076594 |
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| 660 | 2376120 | 0.999134939 | 4.995674694 |
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| 690 | 2484120 | -0.142559177 | -0.712795883 |
| 700 | 2520120 | -0.339829867 | -1.699149337 |
| 710 | 2556120 | 0.742314845 | 3.711574226 |
| 720 | 2592120 | -0.970259619 | -4.851298093 |
| 730 | 2628120 | 0.97006762 | 4.850338102 |
| 740 | 2664120 | -0.741783995 | -3.708919976 |
| 750 | 2700120 | 0.339084984 | 1.69542492 |
| 760 | 2736120 | 0.143342949 | 0.716714746 |
| 770 | 2772120 | -0.59206671 | -2.960333549 |
| 780 | 2808120 | 0.901578052 | 4.507890261 |
| 790 | 2844120 | -0.999101694 | -4.995508468 |
| 800 | 2880120 | 0.861706937 | 4.308534687 |
| 810 | 2916120 | -0.52169936 | -2.6084968 |
| 820 | 2952120 | 0.059024812 | 0.295124062 |
| 830 | 2988120 | 0.417528217 | 2.087641084 |
| 840 | 3024120 | -0.795907997 | -3.979539983 |
| 850 | 3060120 | 0.987146235 | 4.935731174 |
| 860 | 3096120 | -0.946277158 | -4.73138579 |
| 870 | 3132120 | 0.682910296 | 3.414551482 |
| 880 | 3168120 | -0.258970999 | -1.294854995 |
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| 900 | 3240120 | 0.657584712 | 3.287923559 |
| 910 | 3276120 | -0.934691733 | -4.673458666 |
| 920 | 3312120 | 0.992025046 | 4.960125231 |
| 930 | 3348120 | -0.816103891 | -4.080519456 |
| 940 | 3384120 | 0.448292542 | 2.241462708 |
| 950 | 3420120 | 0.024925661 | 0.124628306 |
| 960 | 3456120 | -0.492283103 | -2.461415514 |
| 970 | 3492120 | 0.843890207 | 4.219451037 |
| 980 | 3528120 | -0.997073732 | -4.985368659 |
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| 1000 | 3600120 | -0.619222261 | -3.096111305 |

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