Obraz zawierający tekst

Opis wygenerowany automatycznie

Obliczenia wykonano na typach Double (64 bitowy typ, 1 bit na znak, 11 bitów na cechę, 52 bitów na mantysę)

Poniżej umieszczono tabelę w której spisano wartości różnych funkcji dla kolejnych argumentów x oraz wykres z zaznaczonymi tymi wartościami.

**Tab. 1.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **x** | **1st formula** | **2nd formula** | **3rd formula** | **4th formula** | **expected** |
| 0,9900 | 1,78E-15 | -1,11E-15 | 1,00E-16 | 1,00E-16 | 1,00E-16 |
| 0,9902 | -1,24E-14 | -5,33E-15 | 8,51E-17 | 8,51E-17 | 8,51E-17 |
| 0,9904 | 5,33E-15 | 5,55E-16 | 7,21E-17 | 7,21E-17 | 7,21E-17 |
| 0,9906 | -1,78E-15 | -4,66E-15 | 6,10E-17 | 6,10E-17 | 6,10E-17 |
| 0,9908 | 1,78E-15 | -4,66E-15 | 5,13E-17 | 5,13E-17 | 5,13E-17 |
| 0,9910 | -5,33E-15 | -2,22E-15 | 4,30E-17 | 4,30E-17 | 4,30E-17 |
| 0,9912 | -5,33E-15 | 3,33E-15 | 3,60E-17 | 3,60E-17 | 3,60E-17 |
| 0,9914 | 5,33E-15 | 9,99E-16 | 2,99E-17 | 2,99E-17 | 2,99E-17 |
| 0,9916 | -1,78E-15 | -8,88E-16 | 2,48E-17 | 2,48E-17 | 2,48E-17 |
| 0,9918 | -8,88E-15 | 7,77E-15 | 2,04E-17 | 2,04E-17 | 2,04E-17 |
| 0,9920 | -5,33E-15 | -2,22E-15 | 1,68E-17 | 1,68E-17 | 1,68E-17 |
| 0,9922 | 1,78E-15 | -1,11E-15 | 1,37E-17 | 1,37E-17 | 1,37E-17 |
| 0,9924 | -1,78E-15 | -4,22E-15 | 1,11E-17 | 1,11E-17 | 1,11E-17 |
| 0,9926 | -5,33E-15 | -2,22E-16 | 8,99E-18 | 8,99E-18 | 8,99E-18 |
| 0,9928 | 8,88E-15 | 3,33E-15 | 7,22E-18 | 7,22E-18 | 7,22E-18 |
| 0,9930 | 5,33E-15 | -7,77E-15 | 5,76E-18 | 5,76E-18 | 5,76E-18 |
| 0,9932 | -1,78E-15 | 8,88E-16 | 4,57E-18 | 4,57E-18 | 4,57E-18 |
| 0,9934 | -1,78E-15 | -7,55E-15 | 3,60E-18 | 3,60E-18 | 3,60E-18 |
| 0,9936 | 1,78E-15 | -1,33E-15 | 2,81E-18 | 2,81E-18 | 2,81E-18 |
| 0,9938 | -8,88E-15 | 3,89E-15 | 2,18E-18 | 2,18E-18 | 2,18E-18 |
| 0,9940 | -1,78E-15 | 1,44E-15 | 1,68E-18 | 1,68E-18 | 1,68E-18 |
| 0,9942 | 1,78E-15 | 4,22E-15 | 1,28E-18 | 1,28E-18 | 1,28E-18 |
| 0,9944 | 1,24E-14 | -5,11E-15 | 9,67E-19 | 9,67E-19 | 9,67E-19 |
| 0,9946 | 5,33E-15 | 1,78E-15 | 7,23E-19 | 7,23E-19 | 7,23E-19 |
| 0,9948 | -1,24E-14 | 1,11E-15 | 5,35E-19 | 5,35E-19 | 5,35E-19 |
| 0,9950 | 8,88E-15 | -3,77E-15 | 3,91E-19 | 3,91E-19 | 3,91E-19 |
| 0,9952 | -5,33E-15 | -4,00E-15 | 2,82E-19 | 2,82E-19 | 2,82E-19 |
| 0,9954 | 8,88E-15 | -4,22E-15 | 2,00E-19 | 2,00E-19 | 2,00E-19 |
| 0,9956 | 8,88E-15 | 1,33E-15 | 1,40E-19 | 1,40E-19 | 1,40E-19 |
| 0,9958 | 1,78E-15 | 5,55E-15 | 9,68E-20 | 9,68E-20 | 9,68E-20 |
| 0,9960 | -8,88E-15 | -2,22E-16 | 6,55E-20 | 6,55E-20 | 6,55E-20 |
| 0,9962 | 1,24E-14 | -6,66E-16 | 4,35E-20 | 4,35E-20 | 4,35E-20 |
| 0,9964 | 5,33E-15 | 9,88E-15 | 2,82E-20 | 2,82E-20 | 2,82E-20 |
| 0,9966 | -5,33E-15 | 2,78E-15 | 1,79E-20 | 1,79E-20 | 1,79E-20 |
| 0,9968 | -8,88E-15 | -3,77E-15 | 1,10E-20 | 1,10E-20 | 1,10E-20 |
| 0,9970 | -5,33E-15 | 1,11E-16 | 6,56E-21 | 6,56E-21 | 6,56E-21 |
| 0,9972 | 1,78E-15 | 2,78E-15 | 3,78E-21 | 3,78E-21 | 3,78E-21 |
| 0,9974 | 1,78E-15 | -1,11E-15 | 2,09E-21 | 2,09E-21 | 2,09E-21 |
| 0,9976 | 1,78E-15 | 2,22E-15 | 1,10E-21 | 1,10E-21 | 1,10E-21 |
| 0,9978 | 8,88E-15 | -3,55E-15 | 5,49E-22 | 5,49E-22 | 5,49E-22 |
| 0,9980 | -5,33E-15 | -5,77E-15 | 2,56E-22 | 2,56E-22 | 2,56E-22 |
| 0,9982 | -1,78E-15 | 5,11E-15 | 1,10E-22 | 1,10E-22 | 1,10E-22 |
| 0,9984 | 5,33E-15 | -2,44E-15 | 4,29E-23 | 4,29E-23 | 4,29E-23 |
| 0,9986 | -5,33E-15 | 2,55E-15 | 1,48E-23 | 1,48E-23 | 1,48E-23 |
| 0,9988 | 1,78E-15 | 3,22E-15 | 4,30E-24 | 4,30E-24 | 4,30E-24 |
| 0,9990 | 1,24E-14 | -4,44E-16 | 1,00E-24 | 1,00E-24 | 1,00E-24 |
| 0,9992 | -1,78E-15 | -8,88E-16 | 1,68E-25 | 1,68E-25 | 1,68E-25 |
| 0,9994 | 2,31E-14 | 6,77E-15 | 1,68E-26 | 1,68E-26 | 1,68E-26 |
| 0,9996 | -5,33E-15 | -3,77E-15 | 6,55E-28 | 6,55E-28 | 6,55E-28 |
| 0,9998 | -1,24E-14 | -1,78E-15 | 2,56E-30 | 2,56E-30 | 2,56E-30 |
| 1,0000 | 1,78E-15 | 3,77E-15 | 2,31E-120 | 2,31E-120 | 0 |
| 1,0002 | 1,78E-15 | 1,44E-15 | 2,56E-30 | 2,56E-30 | 2,56E-30 |
| 1,0004 | -5,33E-15 | 4,11E-15 | 6,55E-28 | 6,55E-28 | 6,55E-24 |
| 1,0006 | -5,33E-15 | 4,11E-15 | 1,68E-26 | 1,68E-26 | 1,68E-26 |
| 1,0008 | 1,60E-14 | 2,33E-15 | 1,68E-25 | 1,68E-25 | 1,68E-25 |
| 1,0010 | -5,33E-15 | -5,77E-15 | 1,00E-24 | 1,00E-24 | 1,00E-24 |
| 1,0012 | 5,33E-15 | 6,11E-15 | 4,30E-24 | 4,30E-24 | 4,30E-24 |
| 1,0014 | 5,33E-15 | -3,55E-15 | 1,48E-23 | 1,48E-23 | 1,48E-23 |
| 1,0016 | 5,33E-15 | -2,89E-15 | 4,29E-23 | 4,29E-23 | 4,29E-23 |
| 1,0018 | -5,33E-15 | -1,11E-15 | 1,10E-22 | 1,10E-22 | 1,10E-22 |
| 1,0020 | -2,31E-14 | -3,77E-15 | 2,56E-22 | 2,56E-22 | 2,56E-22 |
| 1,0022 | -8,88E-15 | -2,22E-16 | 5,49E-22 | 5,49E-22 | 5,49E-22 |
| 1,0024 | 1,24E-14 | 6,77E-15 | 1,10E-21 | 1,10E-21 | 1,10E-21 |
| 1,0026 | 1,78E-15 | -2,00E-15 | 2,09E-21 | 2,09E-21 | 2,09E-21 |
| 1,0028 | 1,24E-14 | -3,55E-15 | 3,78E-21 | 3,78E-21 | 3,78E-21 |
| 1,0030 | -1,78E-15 | 0 | 6,56E-21 | 6,56E-21 | 6,56E-21 |
| 1,0032 | -1,24E-14 | -2,22E-16 | 1,10E-20 | 1,10E-20 | 1,10E-20 |
| 1,0034 | -8,88E-15 | -6,66E-16 | 1,79E-20 | 1,79E-20 | 1,79E-20 |
| 1,0036 | 8,88E-15 | 2,22E-15 | 2,82E-20 | 2,82E-20 | 2,82E-20 |
| 1,0038 | -1,24E-14 | -1,33E-15 | 4,35E-20 | 4,35E-20 | 4,35E-20 |
| 1,0040 | 5,33E-15 | -7,33E-15 | 6,55E-20 | 6,55E-20 | 6,55E-20 |
| 1,0042 | 8,88E-15 | -6,44E-15 | 9,68E-20 | 9,68E-20 | 9,68E-20 |
| 1,0044 | -5,33E-15 | 2,22E-15 | 1,40E-19 | 1,40E-19 | 1,40E-19 |
| 1,0046 | -1,24E-14 | -4,00E-15 | 2,00E-19 | 2,00E-19 | 2,00E-19 |
| 1,0048 | 1,24E-14 | -4,66E-15 | 2,82E-19 | 2,82E-19 | 2,82E-19 |
| 1,0050 | -8,88E-15 | 2,66E-15 | 3,91E-19 | 3,91E-19 | 3,91E-19 |
| 1,0052 | 1,78E-15 | 7,44E-15 | 5,35E-19 | 5,35E-19 | 5,35E-19 |
| 1,0054 | -8,88E-15 | 5,66E-15 | 7,23E-19 | 7,23E-19 | 7,23E-19 |
| 1,0056 | 1,78E-15 | -5,77E-15 | 9,67E-19 | 9,67E-19 | 9,67E-19 |
| 1,0058 | 1,78E-15 | -7,99E-15 | 1,28E-18 | 1,28E-18 | 1,28E-18 |
| 1,0060 | 1,78E-15 | 1,11E-15 | 1,68E-18 | 1,68E-18 | 1,68E-18 |
| 1,0062 | -8,88E-15 | 9,99E-16 | 2,18E-18 | 2,18E-18 | 2,18E-18 |
| 1,0064 | -1,95E-14 | -2,22E-15 | 2,81E-18 | 2,81E-18 | 2,81E-18 |
| 1,0066 | 5,33E-15 | -8,88E-16 | 3,60E-18 | 3,60E-18 | 3,60E-18 |
| 1,0068 | 8,88E-15 | 4,22E-15 | 4,57E-18 | 4,57E-18 | 4,57E-18 |
| 1,0070 | 5,33E-15 | -5,11E-15 | 5,76E-18 | 5,76E-18 | 5,76E-18 |
| 1,0072 | 2,31E-14 | 1,11E-15 | 7,22E-18 | 7,22E-18 | 7,22E-18 |
| 1,0074 | 8,88E-15 | -4,44E-16 | 8,99E-18 | 8,99E-18 | 8,99E-18 |
| 1,0076 | -1,78E-15 | -2,89E-15 | 1,11E-17 | 1,11E-17 | 1,11E-17 |
| 1,0078 | -5,33E-15 | 1,11E-16 | 1,37E-17 | 1,37E-17 | 1,37E-17 |
| 1,0080 | 1,78E-15 | 5,55E-15 | 1,68E-17 | 1,68E-17 | 1,68E-17 |
| 1,0082 | -8,88E-15 | 3,33E-16 | 2,04E-17 | 2,04E-17 | 2,04E-17 |
| 1,0084 | -1,24E-14 | 7,66E-15 | 2,48E-17 | 2,48E-17 | 2,48E-17 |
| 1,0086 | -1,78E-15 | 2,00E-15 | 2,99E-17 | 2,99E-17 | 2,99E-17 |
| 1,0088 | -1,78E-15 | 7,44E-15 | 3,60E-17 | 3,60E-17 | 3,60E-17 |
| 1,0090 | -5,33E-15 | -2,66E-15 | 4,30E-17 | 4,30E-17 | 4,30E-17 |
| 1,0092 | -1,24E-14 | -2,22E-16 | 5,13E-17 | 5,13E-17 | 5,13E-17 |
| 1,0094 | -5,33E-15 | 3,77E-15 | 6,10E-17 | 6,10E-17 | 6,10E-17 |
| 1,0096 | 8,88E-15 | 3,66E-15 | 7,21E-17 | 7,21E-17 | 7,21E-17 |
| 1,0098 | -8,88E-15 | -6,66E-16 | 8,51E-17 | 8,51E-17 | 8,51E-17 |
| 1,0100 | 1,78E-15 | 4,88E-15 | 1,00E-16 | 1,00E-16 | 1,00E-16 |

Dla prostszego porównania z wartością oczekiwaną sporządzono tabelę wartości różnic (różnic wartości funkcji względem wartości oczekiwanych), oraz ich wykres.

**Tab. 2.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **x** | **1st diff** | **2nd diff** | **3rd diff** | **4th diff** | **expected** |
| 0,9900 | -1,68E-15 | 1,21E-15 | 0,00E+00 | 0,00E+00 | 1,00E-16 |
| 0,9902 | 1,25E-14 | 5,41E-15 | -2,26E-24 | -2,26E-24 | 8,51E-17 |
| 0,9904 | -5,26E-15 | -4,83E-16 | 4,21E-23 | 4,21E-23 | 7,21E-17 |
| 0,9906 | 1,84E-15 | 4,72E-15 | 6,15E-24 | 6,15E-24 | 6,10E-17 |
| 0,9908 | -1,73E-15 | 4,71E-15 | 1,27E-23 | 1,27E-23 | 5,13E-17 |
| 0,9910 | 5,37E-15 | 2,26E-15 | -2,10E-23 | -2,10E-23 | 4,30E-17 |
| 0,9912 | 5,37E-15 | -3,29E-15 | 4,75E-23 | 4,75E-23 | 3,60E-17 |
| 0,9914 | -5,30E-15 | -9,69E-16 | 7,29E-24 | 7,29E-24 | 2,99E-17 |
| 0,9916 | 1,80E-15 | 9,13E-16 | 1,09E-23 | 1,09E-23 | 2,48E-17 |
| 0,9918 | 8,90E-15 | -7,75E-15 | -8,59E-24 | -8,59E-24 | 2,04E-17 |
| 0,9920 | 5,35E-15 | 2,24E-15 | -1,60E-23 | -1,60E-23 | 1,68E-17 |
| 0,9922 | -1,76E-15 | 1,12E-15 | -4,37E-23 | -4,37E-23 | 1,37E-17 |
| 0,9924 | 1,79E-15 | 4,23E-15 | -4,79E-23 | -4,79E-23 | 1,11E-17 |
| 0,9926 | 5,34E-15 | 2,31E-16 | 2,60E-24 | 2,60E-24 | 8,99E-18 |
| 0,9928 | -8,87E-15 | -3,32E-15 | -1,36E-24 | -1,36E-24 | 7,22E-18 |
| 0,9930 | -5,32E-15 | 7,78E-15 | -1,00E-24 | -1,00E-24 | 5,76E-18 |
| 0,9932 | 1,78E-15 | -8,84E-16 | -2,40E-24 | -2,40E-24 | 4,57E-18 |
| 0,9934 | 1,78E-15 | 7,55E-15 | 3,94E-24 | 3,94E-24 | 3,60E-18 |
| 0,9936 | -1,77E-15 | 1,34E-15 | 2,33E-25 | 2,33E-25 | 2,81E-18 |
| 0,9938 | 8,88E-15 | -3,88E-15 | -1,06E-24 | -1,06E-24 | 2,18E-18 |
| 0,9940 | 1,78E-15 | -1,44E-15 | 4,00E-24 | 4,00E-24 | 1,68E-18 |
| 0,9942 | -1,78E-15 | -4,22E-15 | -8,17E-25 | -8,17E-25 | 1,28E-18 |
| 0,9944 | -1,24E-14 | 5,11E-15 | -1,16E-25 | -1,16E-25 | 9,67E-19 |
| 0,9946 | -5,33E-15 | -1,78E-15 | 3,87E-25 | 3,87E-25 | 7,23E-19 |
| 0,9948 | 1,24E-14 | -1,11E-15 | -2,85E-25 | -2,85E-25 | 5,35E-19 |
| 0,9950 | -8,88E-15 | 3,78E-15 | -3,49E-31 | -3,50E-31 | 3,91E-19 |
| 0,9952 | 5,33E-15 | 4,00E-15 | 1,96E-25 | 1,96E-25 | 2,82E-19 |
| 0,9954 | -8,88E-15 | 4,22E-15 | -1,22E-25 | -1,22E-25 | 2,00E-19 |
| 0,9956 | -8,88E-15 | -1,33E-15 | -2,36E-25 | -2,36E-25 | 1,40E-19 |
| 0,9958 | -1,78E-15 | -5,55E-15 | -2,00E-26 | -2,00E-26 | 9,68E-20 |
| 0,9960 | 8,88E-15 | 2,22E-16 | -8,77E-32 | -8,77E-32 | 6,55E-20 |
| 0,9962 | -1,24E-14 | 6,66E-16 | -2,14E-26 | -2,14E-26 | 4,35E-20 |
| 0,9964 | -5,33E-15 | -9,88E-15 | 9,25E-28 | 9,25E-28 | 2,82E-20 |
| 0,9966 | 5,33E-15 | -2,78E-15 | -3,90E-26 | -3,90E-26 | 1,79E-20 |
| 0,9968 | 8,88E-15 | 3,77E-15 | -1,63E-26 | -1,63E-26 | 1,10E-20 |
| 0,9970 | 5,33E-15 | -1,11E-16 | -1,36E-32 | -1,36E-32 | 6,56E-21 |
| 0,9972 | -1,78E-15 | -2,78E-15 | 1,66E-29 | 1,66E-29 | 3,78E-21 |
| 0,9974 | -1,78E-15 | 1,11E-15 | -6,46E-28 | -6,46E-28 | 2,09E-21 |
| 0,9976 | -1,78E-15 | -2,22E-15 | -3,14E-27 | -3,14E-27 | 1,10E-21 |
| 0,9978 | -8,88E-15 | 3,55E-15 | 2,65E-28 | 2,65E-28 | 5,49E-22 |
| 0,9980 | 5,33E-15 | 5,77E-15 | -9,11E-34 | -9,12E-34 | 2,56E-22 |
| 0,9982 | 1,78E-15 | -5,11E-15 | 3,94E-28 | 3,94E-28 | 1,10E-22 |
| 0,9984 | -5,33E-15 | 2,44E-15 | 2,70E-29 | 2,70E-29 | 4,29E-23 |
| 0,9986 | 5,33E-15 | -2,55E-15 | 9,44E-30 | 9,44E-30 | 1,48E-23 |
| 0,9988 | -1,78E-15 | -3,22E-15 | 3,04E-30 | 3,04E-30 | 4,30E-24 |
| 0,9990 | -1,24E-14 | 4,44E-16 | -8,00E-36 | -8,00E-36 | 1,00E-24 |
| 0,9992 | 1,78E-15 | 8,88E-16 | -1,60E-31 | -1,60E-31 | 1,68E-25 |
| 0,9994 | -2,31E-14 | -6,77E-15 | 4,00E-32 | 4,00E-32 | 1,68E-26 |
| 0,9996 | 5,33E-15 | 3,77E-15 | -1,40E-38 | -1,40E-38 | 6,55E-28 |
| 0,9998 | 1,24E-14 | 1,78E-15 | -1,11E-40 | -1,11E-40 | 2,56E-30 |
| 1,0000 | -1,78E-15 | -3,77E-15 | -2,31E-120 | -2,31E-120 | 0 |
| 1,0002 | -1,78E-15 | -1,44E-15 | 1,16E-40 | 1,16E-40 | 2,56E-30 |
| 1,0004 | 5,33E-15 | -4,11E-15 | 6,55E-24 | 6,55E-24 | 6,55E-24 |
| 1,0006 | 5,33E-15 | -4,11E-15 | 4,00E-32 | 4,00E-32 | 1,68E-26 |
| 1,0008 | -1,60E-14 | -2,33E-15 | -1,60E-31 | -1,60E-31 | 1,68E-25 |
| 1,0010 | 5,33E-15 | 5,77E-15 | 9,76E-36 | 9,76E-36 | 1,00E-24 |
| 1,0012 | -5,33E-15 | -6,11E-15 | 3,04E-30 | 3,04E-30 | 4,30E-24 |
| 1,0014 | -5,33E-15 | 3,55E-15 | 9,44E-30 | 9,44E-30 | 1,48E-23 |
| 1,0016 | -5,33E-15 | 2,89E-15 | 2,70E-29 | 2,70E-29 | 4,29E-23 |
| 1,0018 | 5,33E-15 | 1,11E-15 | 3,94E-28 | 3,94E-28 | 1,10E-22 |
| 1,0020 | 2,31E-14 | 3,77E-15 | 1,36E-33 | 1,36E-33 | 2,56E-22 |
| 1,0022 | 8,88E-15 | 2,22E-16 | 2,65E-28 | 2,65E-28 | 5,49E-22 |
| 1,0024 | -1,24E-14 | -6,77E-15 | -3,14E-27 | -3,14E-27 | 1,10E-21 |
| 1,0026 | -1,78E-15 | 2,00E-15 | -6,46E-28 | -6,46E-28 | 2,09E-21 |
| 1,0028 | -1,24E-14 | 3,55E-15 | 1,67E-29 | 1,67E-29 | 3,78E-21 |
| 1,0030 | 1,78E-15 | 6,56E-21 | 2,52E-32 | 2,52E-32 | 6,56E-21 |
| 1,0032 | 1,24E-14 | 2,22E-16 | -1,63E-26 | -1,63E-26 | 1,10E-20 |
| 1,0034 | 8,88E-15 | 6,66E-16 | -3,90E-26 | -3,90E-26 | 1,79E-20 |
| 1,0036 | -8,88E-15 | -2,22E-15 | 9,26E-28 | 9,26E-28 | 2,82E-20 |
| 1,0038 | 1,24E-14 | 1,33E-15 | -2,14E-26 | -2,14E-26 | 4,35E-20 |
| 1,0040 | -5,33E-15 | 7,33E-15 | 2,03E-31 | 2,03E-31 | 6,55E-20 |
| 1,0042 | -8,88E-15 | 6,44E-15 | -2,00E-26 | -2,00E-26 | 9,68E-20 |
| 1,0044 | 5,33E-15 | -2,22E-15 | -2,36E-25 | -2,36E-25 | 1,40E-19 |
| 1,0046 | 1,24E-14 | 4,00E-15 | -1,22E-25 | -1,22E-25 | 2,00E-19 |
| 1,0048 | -1,24E-14 | 4,66E-15 | 1,96E-25 | 1,96E-25 | 2,82E-19 |
| 1,0050 | 8,88E-15 | -2,66E-15 | 1,04E-30 | 1,04E-30 | 3,91E-19 |
| 1,0052 | -1,78E-15 | -7,44E-15 | -2,85E-25 | -2,85E-25 | 5,35E-19 |
| 1,0054 | 8,88E-15 | -5,66E-15 | 3,87E-25 | 3,87E-25 | 7,23E-19 |
| 1,0056 | -1,78E-15 | 5,77E-15 | -1,16E-25 | -1,16E-25 | 9,67E-19 |
| 1,0058 | -1,78E-15 | 7,99E-15 | -8,17E-25 | -8,17E-25 | 1,28E-18 |
| 1,0060 | -1,77E-15 | -1,11E-15 | 4,00E-24 | 4,00E-24 | 1,68E-18 |
| 1,0062 | 8,88E-15 | -9,97E-16 | -1,06E-24 | -1,06E-24 | 2,18E-18 |
| 1,0064 | 1,95E-14 | 2,22E-15 | 2,33E-25 | 2,33E-25 | 2,81E-18 |
| 1,0066 | -5,33E-15 | 8,92E-16 | 3,94E-24 | 3,94E-24 | 3,60E-18 |
| 1,0068 | -8,88E-15 | -4,21E-15 | -2,40E-24 | -2,40E-24 | 4,57E-18 |
| 1,0070 | -5,32E-15 | 5,11E-15 | -1,00E-24 | -1,00E-24 | 5,76E-18 |
| 1,0072 | -2,31E-14 | -1,10E-15 | -1,36E-24 | -1,36E-24 | 7,22E-18 |
| 1,0074 | -8,87E-15 | 4,53E-16 | 2,60E-24 | 2,60E-24 | 8,99E-18 |
| 1,0076 | 1,79E-15 | 2,90E-15 | -4,79E-23 | -4,79E-23 | 1,11E-17 |
| 1,0078 | 5,34E-15 | -9,73E-17 | -4,37E-23 | -4,37E-23 | 1,37E-17 |
| 1,0080 | -1,76E-15 | -5,53E-15 | -1,60E-23 | -1,60E-23 | 1,68E-17 |
| 1,0082 | 8,90E-15 | -3,13E-16 | -8,59E-24 | -8,59E-24 | 2,04E-17 |
| 1,0084 | 1,25E-14 | -7,64E-15 | 1,09E-23 | 1,09E-23 | 2,48E-17 |
| 1,0086 | 1,81E-15 | -1,97E-15 | 7,29E-24 | 7,29E-24 | 2,99E-17 |
| 1,0088 | 1,81E-15 | -7,40E-15 | 4,75E-23 | 4,75E-23 | 3,60E-17 |
| 1,0090 | 5,37E-15 | 2,71E-15 | -2,10E-23 | -2,10E-23 | 4,30E-17 |
| 1,0092 | 1,25E-14 | 2,73E-16 | 1,27E-23 | 1,27E-23 | 5,13E-17 |
| 1,0094 | 5,39E-15 | -3,71E-15 | 6,15E-24 | 6,15E-24 | 6,10E-17 |
| 1,0096 | -8,81E-15 | -3,59E-15 | 4,21E-23 | 4,21E-23 | 7,21E-17 |
| 1,0098 | 8,97E-15 | 7,51E-16 | -2,26E-24 | -2,26E-24 | 8,51E-17 |
| 1,0100 | -1,68E-15 | -4,78E-15 | 1,77E-28 | 1,77E-28 | 1,00E-16 |

**Wnioski**

Zarówno funkcja pierwsza jak i druga są znacząco mniej precyzyjne niż funkcja trzecia i czwarta. Wynika to z ilości wykonywanych obliczeń, która ma wpływ na dokładność w przypadku używaniu liczb typu Double.