# 수학 상수 표

| 기호 | 상세 | 값(소수점 아래 20자리까지) |
|---|---|---|
| $\pi$ | 원주율 | 3.14159 26535 89793 23846 |
| $\tau$ | 새원주율 | 6.28318 53071 79586 47692 |
| $\sqrt{2}$ | 2의 제곱근 | 1.41421 35623 73095 04880 |
| $\sqrt{3}$ | 3의 제곱근 | 1.73205 08075 68877 29352 |
| $\sqrt{5}$ | 5의 제곱근 | 2.23606 79774 99789 69640 |
| $\phi$ | 황금비 | 1.61803 39887 49894 84820 |
| $\sqrt[3]{2}$ | 2의 세제곱근 | 1.25992 10498 94873 16576 |
| $\sqrt[3]{3}$ | 3의 세제곱근 | 1.44224 95703 07408 38232 |
| $\sqrt[12]{2}$ | 2의 12제곱근 | 1.05946 30943 59295 26456 |
| $e$ | 자연로그의 밑 | 2.71828 18284 59045 23536 |
| $\ln 2$ | 2의 자연로그 | 0.69314 71805 59945 30941 |
| $\gamma$ | Euler-Mascheroni 상수 | 0.57721 56649 01532 86060 |
| $\Omega$ | 오메가 상수 | 0.56714 32904 09783 87299 |
| $\delta$ | 제1 Feigenbaum 상수 | 4.66920 16091 02990 67185 |
| $\alpha$ | 제2 Feigenbaum 상수 | 2.50290 78750 95892 82228 |
| $\beta$ | Bernstein 상수 | 0.28016 94990 23869 13303 |
| $\zeta(3)$ | Apéry 상수 | 1.20205 69031 59594 28539 |
| $\rho$ | 소수 상수 | 0.41468 25098 51111 66024 |

# Imperial 단위 변환 표

$$\text{inch} = 2.5400000 \times 10^{-2}\text{m}$$

$$\text{foot} = 3.0480000 \times 10^{-1}\text{m}$$

$$\text{yard} = 9.1440000 \times 10^{-1}\text{m}$$

$$\text{mile} = 1.6093440 \times 10^{+3}\text{m}$$

$$\text{fl oz} = 2.8413063 \times 10^{-2}\text{m}^3$$

$$\text{oz} = 2.8349523 \times 10^{-2}\text{kg}$$

$$\text{lb} = 4.5359237 \times 10^{-1}\text{kg}$$

# SI 접두사

$$\text{tera}\,(\text{T}) = 10^{12}$$

$$\text{giga}\,(\text{G}) = 10^{9}$$

$$\text{mega}\,(\text{M}) = 10^{6}$$

$$\text{kilo}\,(\text{k}) = 10^{3}$$

$$\text{hecto}\,(\text{h}) = 10^{2}$$

$$\text{deka}\,(\text{da}) = 10^{1}$$

$$\text{deci}\,(\text{d}) = 10^{-1}$$

$$\text{centi}\,(\text{c}) = 10^{-2}$$

$$\text{milli}\,(\text{m}) = 10^{-3}$$

$$\text{micro}\,(\mu) = 10^{-6}$$

$$\text{nano}\,(\text{n}) = 10^{-9}$$

$$\text{pico}\,(\text{p}) = 10^{-12}$$

# 상용로그 함수표

* $a_b$는 $\dfrac{a}{10^{\lfloor \lg a \rfloor - 1}} \times 10^b$를 의미한다.

| $x$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.0 | $0_-$ | $43214_{-3}$ | $86002_{-3}$ | $12837_{-2}$ | $17033_{-2}$ | $21189_{-2}$ | $25306_{-2}$ | $29384_{-2}$ | $33424_{-2}$ | $37426_{-2}$ |
| 1.1 | $41393_{-2}$ | $45323_{-2}$ | $49218_{-2}$ | $53078_{-2}$ | $56905_{-2}$ | $60698_{-2}$ | $64458_{-2}$ | $68186_{-2}$ | $71882_{-2}$ | $75547_{-2}$ |
| 1.2 | $79181_{-2}$ | $82785_{-2}$ | $86360_{-2}$ | $89905_{-2}$ | $93422_{-2}$ | $96910_{-2}$ | $10037_{-1}$ | $10380_{-1}$ | $10721_{-1}$ | $11059_{-1}$ |
| 1.3 | $11394_{-1}$ | $11727_{-1}$ | $12057_{-1}$ | $12385_{-1}$ | $12710_{-1}$ | $13033_{-1}$ | $13354_{-1}$ | $13672_{-1}$ | $13988_{-1}$ | $14301_{-1}$ |
| 1.4 | $14613_{-1}$ | $14922_{-1}$ | $15229_{-1}$ | $15534_{-1}$ | $15836_{-1}$ | $16137_{-1}$ | $16435_{-1}$ | $16732_{-1}$ | $17026_{-1}$ | $17319_{-1}$ |
| 1.5 | $17609_{-1}$ | $17898_{-1}$ | $18184_{-1}$ | $18469_{-1}$ | $18752_{-1}$ | $19033_{-1}$ | $19312_{-1}$ | $19590_{-1}$ | $19866_{-1}$ | $20140_{-1}$ |
| 1.6 | $20412_{-1}$ | $20683_{-1}$ | $20952_{-1}$ | $21219_{-1}$ | $21484_{-1}$ | $21748_{-1}$ | $22011_{-1}$ | $22272_{-1}$ | $22531_{-1}$ | $22789_{-1}$ |
| 1.7 | $23045_{-1}$ | $23300_{-1}$ | $23553_{-1}$ | $23805_{-1}$ | $24055_{-1}$ | $24304_{-1}$ | $24551_{-1}$ | $24797_{-1}$ | $25042_{-1}$ | $25285_{-1}$ |
| 1.8 | $25527_{-1}$ | $25768_{-1}$ | $26007_{-1}$ | $26245_{-1}$ | $26482_{-1}$ | $26717_{-1}$ | $26951_{-1}$ | $27184_{-1}$ | $27416_{-1}$ | $27646_{-1}$ |
| 1.9 | $27875_{-1}$ | $28103_{-1}$ | $28330_{-1}$ | $28556_{-1}$ | $28780_{-1}$ | $29003_{-1}$ | $29226_{-1}$ | $29447_{-1}$ | $29667_{-1}$ | $29885_{-1}$ |
| 2.0 | $30103_{-1}$ | $30320_{-1}$ | $30535_{-1}$ | $30750_{-1}$ | $30963_{-1}$ | $31175_{-1}$ | $31387_{-1}$ | $31597_{-1}$ | $31806_{-1}$ | $32015_{-1}$ |
| 2.1 | $32222_{-1}$ | $32428_{-1}$ | $32634_{-1}$ | $32838_{-1}$ | $33041_{-1}$ | $33244_{-1}$ | $33445_{-1}$ | $33646_{-1}$ | $33846_{-1}$ | $34044_{-1}$ |
| 2.2 | $34242_{-1}$ | $34439_{-1}$ | $34635_{-1}$ | $34830_{-1}$ | $35025_{-1}$ | $35218_{-1}$ | $35411_{-1}$ | $35603_{-1}$ | $35793_{-1}$ | $35984_{-1}$ |
| 2.3 | $36173_{-1}$ | $36361_{-1}$ | $36549_{-1}$ | $36736_{-1}$ | $36922_{-1}$ | $37107_{-1}$ | $37291_{-1}$ | $37475_{-1}$ | $37658_{-1}$ | $37840_{-1}$ |
| 2.4 | $38021_{-1}$ | $38202_{-1}$ | $38382_{-1}$ | $38561_{-1}$ | $38739_{-1}$ | $38917_{-1}$ | $39094_{-1}$ | $39270_{-1}$ | $39445_{-1}$ | $39620_{-1}$ |
| 2.5 | $39794_{-1}$ | $39967_{-1}$ | $40140_{-1}$ | $40312_{-1}$ | $40483_{-1}$ | $40654_{-1}$ | $40824_{-1}$ | $40993_{-1}$ | $41162_{-1}$ | $41330_{-1}$ |
| 2.6 | $41497_{-1}$ | $41664_{-1}$ | $41830_{-1}$ | $41996_{-1}$ | $42160_{-1}$ | $42325_{-1}$ | $42488_{-1}$ | $42651_{-1}$ | $42813_{-1}$ | $42975_{-1}$ |
| 2.7 | $43136_{-1}$ | $43297_{-1}$ | $43457_{-1}$ | $43616_{-1}$ | $43775_{-1}$ | $43933_{-1}$ | $44091_{-1}$ | $44248_{-1}$ | $44404_{-1}$ | $44560_{-1}$ |
| 2.8 | $44716_{-1}$ | $44871_{-1}$ | $45025_{-1}$ | $45179_{-1}$ | $45332_{-1}$ | $45484_{-1}$ | $45637_{-1}$ | $45788_{-1}$ | $45939_{-1}$ | $46090_{-1}$ |
| 2.9 | $46240_{-1}$ | $46389_{-1}$ | $46538_{-1}$ | $46687_{-1}$ | $46835_{-1}$ | $46982_{-1}$ | $47129_{-1}$ | $47276_{-1}$ | $47422_{-1}$ | $47567_{-1}$ |
| 3.0 | $47712_{-1}$ | $47857_{-1}$ | $48001_{-1}$ | $48144_{-1}$ | $48287_{-1}$ | $48430_{-1}$ | $48572_{-1}$ | $48714_{-1}$ | $48855_{-1}$ | $48996_{-1}$ |
| 3.1 | $49136_{-1}$ | $49276_{-1}$ | $49415_{-1}$ | $49554_{-1}$ | $49693_{-1}$ | $49831_{-1}$ | $49969_{-1}$ | $50106_{-1}$ | $50243_{-1}$ | $50379_{-1}$ |
| 3.2 | $50515_{-1}$ | $50651_{-1}$ | $50786_{-1}$ | $50920_{-1}$ | $51055_{-1}$ | $51188_{-1}$ | $51322_{-1}$ | $51455_{-1}$ | $51587_{-1}$ | $51720_{-1}$ |
| 3.3 | $51851_{-1}$ | $51983_{-1}$ | $52114_{-1}$ | $52244_{-1}$ | $52375_{-1}$ | $52504_{-1}$ | $52634_{-1}$ | $52763_{-1}$ | $52892_{-1}$ | $53020_{-1}$ |
| 3.4 | $53148_{-1}$ | $53275_{-1}$ | $53403_{-1}$ | $53529_{-1}$ | $53656_{-1}$ | $53782_{-1}$ | $53908_{-1}$ | $54033_{-1}$ | $54158_{-1}$ | $54283_{-1}$ |
| 3.5 | $54407_{-1}$ | $54531_{-1}$ | $54654_{-1}$ | $54777_{-1}$ | $54900_{-1}$ | $55023_{-1}$ | $55145_{-1}$ | $55267_{-1}$ | $55388_{-1}$ | $55509_{-1}$ |
| 3.6 | $55630_{-1}$ | $55751_{-1}$ | $55871_{-1}$ | $55991_{-1}$ | $56110_{-1}$ | $56229_{-1}$ | $56348_{-1}$ | $56467_{-1}$ | $56585_{-1}$ | $56703_{-1}$ |
| 3.7 | $56820_{-1}$ | $56937_{-1}$ | $57054_{-1}$ | $57171_{-1}$ | $57287_{-1}$ | $57403_{-1}$ | $57519_{-1}$ | $57634_{-1}$ | $57749_{-1}$ | $57864_{-1}$ |
| 3.8 | $57978_{-1}$ | $58092_{-1}$ | $58206_{-1}$ | $58320_{-1}$ | $58433_{-1}$ | $58546_{-1}$ | $58659_{-1}$ | $58771_{-1}$ | $58883_{-1}$ | $58995_{-1}$ |
| 3.9 | $59106_{-1}$ | $59218_{-1}$ | $59329_{-1}$ | $59439_{-1}$ | $59550_{-1}$ | $59660_{-1}$ | $59770_{-1}$ | $59879_{-1}$ | $59988_{-1}$ | $60097_{-1}$ |
| 4.0 | $60206_{-1}$ | $60314_{-1}$ | $60423_{-1}$ | $60531_{-1}$ | $60638_{-1}$ | $60746_{-1}$ | $60853_{-1}$ | $60959_{-1}$ | $61066_{-1}$ | $61172_{-1}$ |
| 4.1 | $61278_{-1}$ | $61384_{-1}$ | $61490_{-1}$ | $61595_{-1}$ | $61700_{-1}$ | $61805_{-1}$ | $61909_{-1}$ | $62014_{-1}$ | $62118_{-1}$ | $62221_{-1}$ |
| 4.2 | $62325_{-1}$ | $62428_{-1}$ | $62531_{-1}$ | $62634_{-1}$ | $62737_{-1}$ | $62839_{-1}$ | $62941_{-1}$ | $63043_{-1}$ | $63144_{-1}$ | $63246_{-1}$ |
| 4.3 | $63347_{-1}$ | $63448_{-1}$ | $63548_{-1}$ | $63649_{-1}$ | $63749_{-1}$ | $63849_{-1}$ | $63949_{-1}$ | $64048_{-1}$ | $64147_{-1}$ | $64246_{-1}$ |
| 4.4 | $64345_{-1}$ | $64444_{-1}$ | $64542_{-1}$ | $64640_{-1}$ | $64738_{-1}$ | $64836_{-1}$ | $64933_{-1}$ | $65031_{-1}$ | $65128_{-1}$ | $65225_{-1}$ |
| 4.5 | $65321_{-1}$ | $65418_{-1}$ | $65514_{-1}$ | $65610_{-1}$ | $65706_{-1}$ | $65801_{-1}$ | $65896_{-1}$ | $65992_{-1}$ | $66087_{-1}$ | $66181_{-1}$ |
| 4.6 | $66276_{-1}$ | $66370_{-1}$ | $66464_{-1}$ | $66558_{-1}$ | $66652_{-1}$ | $66745_{-1}$ | $66839_{-1}$ | $66932_{-1}$ | $67025_{-1}$ | $67117_{-1}$ |
| 4.7 | $67210_{-1}$ | $67302_{-1}$ | $67394_{-1}$ | $67486_{-1}$ | $67578_{-1}$ | $67669_{-1}$ | $67761_{-1}$ | $67852_{-1}$ | $67943_{-1}$ | $68034_{-1}$ |
| 4.8 | $68124_{-1}$ | $68215_{-1}$ | $68305_{-1}$ | $68395_{-1}$ | $68485_{-1}$ | $68574_{-1}$ | $68664_{-1}$ | $68753_{-1}$ | $68842_{-1}$ | $68931_{-1}$ |
| 4.9 | $69020_{-1}$ | $69108_{-1}$ | $69197_{-1}$ | $69285_{-1}$ | $69373_{-1}$ | $69461_{-1}$ | $69548_{-1}$ | $69636_{-1}$ | $69723_{-1}$ | $69810_{-1}$ |
| 5.0 | $69897_{-1}$ | $69984_{-1}$ | $70070_{-1}$ | $70157_{-1}$ | $70243_{-1}$ | $70329_{-1}$ | $70415_{-1}$ | $70501_{-1}$ | $70586_{-1}$ | $70672_{-1}$ |
| 5.1 | $70757_{-1}$ | $70842_{-1}$ | $70927_{-1}$ | $71012_{-1}$ | $71096_{-1}$ | $71181_{-1}$ | $71265_{-1}$ | $71349_{-1}$ | $71433_{-1}$ | $71517_{-1}$ |
| 5.2 | $71600_{-1}$ | $71684_{-1}$ | $71767_{-1}$ | $71850_{-1}$ | $71933_{-1}$ | $72016_{-1}$ | $72099_{-1}$ | $72181_{-1}$ | $72263_{-1}$ | $72346_{-1}$ |
| 5.3 | $72428_{-1}$ | $72509_{-1}$ | $72591_{-1}$ | $72673_{-1}$ | $72754_{-1}$ | $72835_{-1}$ | $72916_{-1}$ | $72997_{-1}$ | $73078_{-1}$ | $73159_{-1}$ |
| 5.4 | $73239_{-1}$ | $73320_{-1}$ | $73400_{-1}$ | $73480_{-1}$ | $73560_{-1}$ | $73640_{-1}$ | $73719_{-1}$ | $73799_{-1}$ | $73878_{-1}$ | $73957_{-1}$ |
| 5.5 | $74036_{-1}$ | $74115_{-1}$ | $74194_{-1}$ | $74273_{-1}$ | $74351_{-1}$ | $74429_{-1}$ | $74507_{-1}$ | $74586_{-1}$ | $74663_{-1}$ | $74741_{-1}$ |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 5.6 | $74819_{-1}$ | $74896_{-1}$ | $74974_{-1}$ | $75051_{-1}$ | $75128_{-1}$ | $75205_{-1}$ | $75282_{-1}$ | $75358_{-1}$ | $75435_{-1}$ | $75511_{-1}$ |
| 5.7 | $75587_{-1}$ | $75664_{-1}$ | $75740_{-1}$ | $75815_{-1}$ | $75891_{-1}$ | $75967_{-1}$ | $76042_{-1}$ | $76118_{-1}$ | $76193_{-1}$ | $76268_{-1}$ |
| 5.8 | $76343_{-1}$ | $76418_{-1}$ | $76492_{-1}$ | $76567_{-1}$ | $76641_{-1}$ | $76716_{-1}$ | $76790_{-1}$ | $76864_{-1}$ | $76938_{-1}$ | $77012_{-1}$ |
| 5.9 | $77085_{-1}$ | $77159_{-1}$ | $77232_{-1}$ | $77305_{-1}$ | $77379_{-1}$ | $77452_{-1}$ | $77525_{-1}$ | $77597_{-1}$ | $77670_{-1}$ | $77743_{-1}$ |
| 6.0 | $77815_{-1}$ | $77887_{-1}$ | $77960_{-1}$ | $78032_{-1}$ | $78104_{-1}$ | $78176_{-1}$ | $78247_{-1}$ | $78319_{-1}$ | $78390_{-1}$ | $78462_{-1}$ |
| 6.1 | $78533_{-1}$ | $78604_{-1}$ | $78675_{-1}$ | $78746_{-1}$ | $78817_{-1}$ | $78888_{-1}$ | $78958_{-1}$ | $79029_{-1}$ | $79099_{-1}$ | $79169_{-1}$ |
| 6.2 | $79239_{-1}$ | $79309_{-1}$ | $79379_{-1}$ | $79449_{-1}$ | $79518_{-1}$ | $79588_{-1}$ | $79657_{-1}$ | $79727_{-1}$ | $79796_{-1}$ | $79865_{-1}$ |
| 6.3 | $79934_{-1}$ | $80003_{-1}$ | $80072_{-1}$ | $80140_{-1}$ | $80209_{-1}$ | $80277_{-1}$ | $80346_{-1}$ | $80414_{-1}$ | $80482_{-1}$ | $80550_{-1}$ |
| 6.4 | $80618_{-1}$ | $80686_{-1}$ | $80754_{-1}$ | $80821_{-1}$ | $80889_{-1}$ | $80956_{-1}$ | $81023_{-1}$ | $81090_{-1}$ | $81158_{-1}$ | $81224_{-1}$ |
| 6.5 | $81291_{-1}$ | $81358_{-1}$ | $81425_{-1}$ | $81491_{-1}$ | $81558_{-1}$ | $81624_{-1}$ | $81690_{-1}$ | $81757_{-1}$ | $81823_{-1}$ | $81889_{-1}$ |
| 6.6 | $81954_{-1}$ | $82020_{-1}$ | $82086_{-1}$ | $82151_{-1}$ | $82217_{-1}$ | $82282_{-1}$ | $82347_{-1}$ | $82413_{-1}$ | $82478_{-1}$ | $82543_{-1}$ |
| 6.7 | $82607_{-1}$ | $82672_{-1}$ | $82737_{-1}$ | $82802_{-1}$ | $82866_{-1}$ | $82930_{-1}$ | $82995_{-1}$ | $83059_{-1}$ | $83123_{-1}$ | $83187_{-1}$ |
| 6.8 | $83251_{-1}$ | $83315_{-1}$ | $83378_{-1}$ | $83442_{-1}$ | $83506_{-1}$ | $83569_{-1}$ | $83632_{-1}$ | $83696_{-1}$ | $83759_{-1}$ | $83822_{-1}$ |
| 6.9 | $83885_{-1}$ | $83948_{-1}$ | $84011_{-1}$ | $84073_{-1}$ | $84136_{-1}$ | $84198_{-1}$ | $84261_{-1}$ | $84323_{-1}$ | $84386_{-1}$ | $84448_{-1}$ |
| 7.0 | $84510_{-1}$ | $84572_{-1}$ | $84634_{-1}$ | $84696_{-1}$ | $84757_{-1}$ | $84819_{-1}$ | $84880_{-1}$ | $84942_{-1}$ | $85003_{-1}$ | $85065_{-1}$ |
| 7.1 | $85126_{-1}$ | $85187_{-1}$ | $85248_{-1}$ | $85309_{-1}$ | $85370_{-1}$ | $85431_{-1}$ | $85491_{-1}$ | $85552_{-1}$ | $85612_{-1}$ | $85673_{-1}$ |
| 7.2 | $85733_{-1}$ | $85794_{-1}$ | $85854_{-1}$ | $85914_{-1}$ | $85974_{-1}$ | $86034_{-1}$ | $86094_{-1}$ | $86153_{-1}$ | $86213_{-1}$ | $86273_{-1}$ |
| 7.3 | $86332_{-1}$ | $86392_{-1}$ | $86451_{-1}$ | $86510_{-1}$ | $86570_{-1}$ | $86629_{-1}$ | $86688_{-1}$ | $86747_{-1}$ | $86806_{-1}$ | $86864_{-1}$ |
| 7.4 | $86923_{-1}$ | $86982_{-1}$ | $87040_{-1}$ | $87099_{-1}$ | $87157_{-1}$ | $87216_{-1}$ | $87274_{-1}$ | $87332_{-1}$ | $87390_{-1}$ | $87448_{-1}$ |
| 7.5 | $87506_{-1}$ | $87564_{-1}$ | $87622_{-1}$ | $87679_{-1}$ | $87737_{-1}$ | $87795_{-1}$ | $87852_{-1}$ | $87910_{-1}$ | $87967_{-1}$ | $88024_{-1}$ |
| 7.6 | $88081_{-1}$ | $88138_{-1}$ | $88195_{-1}$ | $88252_{-1}$ | $88309_{-1}$ | $88366_{-1}$ | $88423_{-1}$ | $88480_{-1}$ | $88536_{-1}$ | $88593_{-1}$ |
| 7.7 | $88649_{-1}$ | $88705_{-1}$ | $88762_{-1}$ | $88818_{-1}$ | $88874_{-1}$ | $88930_{-1}$ | $88986_{-1}$ | $89042_{-1}$ | $89098_{-1}$ | $89154_{-1}$ |
| 7.8 | $89209_{-1}$ | $89265_{-1}$ | $89321_{-1}$ | $89376_{-1}$ | $89432_{-1}$ | $89487_{-1}$ | $89542_{-1}$ | $89597_{-1}$ | $89653_{-1}$ | $89708_{-1}$ |
| 7.9 | $89763_{-1}$ | $89818_{-1}$ | $89873_{-1}$ | $89927_{-1}$ | $89982_{-1}$ | $90037_{-1}$ | $90091_{-1}$ | $90146_{-1}$ | $90200_{-1}$ | $90255_{-1}$ |
| 8.0 | $90309_{-1}$ | $90363_{-1}$ | $90417_{-1}$ | $90472_{-1}$ | $90526_{-1}$ | $90580_{-1}$ | $90634_{-1}$ | $90687_{-1}$ | $90741_{-1}$ | $90795_{-1}$ |
| 8.1 | $90849_{-1}$ | $90902_{-1}$ | $90956_{-1}$ | $91009_{-1}$ | $91062_{-1}$ | $91116_{-1}$ | $91169_{-1}$ | $91222_{-1}$ | $91275_{-1}$ | $91328_{-1}$ |
| 8.2 | $91381_{-1}$ | $91434_{-1}$ | $91487_{-1}$ | $91540_{-1}$ | $91593_{-1}$ | $91645_{-1}$ | $91698_{-1}$ | $91751_{-1}$ | $91803_{-1}$ | $91855_{-1}$ |
| 8.3 | $91908_{-1}$ | $91960_{-1}$ | $92012_{-1}$ | $92065_{-1}$ | $92117_{-1}$ | $92169_{-1}$ | $92221_{-1}$ | $92273_{-1}$ | $92324_{-1}$ | $92376_{-1}$ |
| 8.4 | $92428_{-1}$ | $92480_{-1}$ | $92531_{-1}$ | $92583_{-1}$ | $92634_{-1}$ | $92686_{-1}$ | $92737_{-1}$ | $92788_{-1}$ | $92840_{-1}$ | $92891_{-1}$ |
| 8.5 | $92942_{-1}$ | $92993_{-1}$ | $93044_{-1}$ | $93095_{-1}$ | $93146_{-1}$ | $93197_{-1}$ | $93247_{-1}$ | $93298_{-1}$ | $93349_{-1}$ | $93399_{-1}$ |
| 8.6 | $93450_{-1}$ | $93500_{-1}$ | $93551_{-1}$ | $93601_{-1}$ | $93651_{-1}$ | $93702_{-1}$ | $93752_{-1}$ | $93802_{-1}$ | $93852_{-1}$ | $93902_{-1}$ |
| 8.7 | $93952_{-1}$ | $94002_{-1}$ | $94052_{-1}$ | $94101_{-1}$ | $94151_{-1}$ | $94201_{-1}$ | $94250_{-1}$ | $94300_{-1}$ | $94349_{-1}$ | $94399_{-1}$ |
| 8.8 | $94448_{-1}$ | $94498_{-1}$ | $94547_{-1}$ | $94596_{-1}$ | $94645_{-1}$ | $94694_{-1}$ | $94743_{-1}$ | $94792_{-1}$ | $94841_{-1}$ | $94890_{-1}$ |
| 8.9 | $94939_{-1}$ | $94988_{-1}$ | $95036_{-1}$ | $95085_{-1}$ | $95134_{-1}$ | $95182_{-1}$ | $95231_{-1}$ | $95279_{-1}$ | $95328_{-1}$ | $95376_{-1}$ |
| 9.0 | $95424_{-1}$ | $95472_{-1}$ | $95521_{-1}$ | $95569_{-1}$ | $95617_{-1}$ | $95665_{-1}$ | $95713_{-1}$ | $95761_{-1}$ | $95809_{-1}$ | $95856_{-1}$ |
| 9.1 | $95904_{-1}$ | $95952_{-1}$ | $95999_{-1}$ | $96047_{-1}$ | $96095_{-1}$ | $96142_{-1}$ | $96190_{-1}$ | $96237_{-1}$ | $96284_{-1}$ | $96332_{-1}$ |
| 9.2 | $96379_{-1}$ | $96426_{-1}$ | $96473_{-1}$ | $96520_{-1}$ | $96567_{-1}$ | $96614_{-1}$ | $96661_{-1}$ | $96708_{-1}$ | $96755_{-1}$ | $96802_{-1}$ |
| 9.3 | $96848_{-1}$ | $96895_{-1}$ | $96942_{-1}$ | $96988_{-1}$ | $97035_{-1}$ | $97081_{-1}$ | $97128_{-1}$ | $97174_{-1}$ | $97220_{-1}$ | $97267_{-1}$ |
| 9.4 | $97313_{-1}$ | $97359_{-1}$ | $97405_{-1}$ | $97451_{-1}$ | $97497_{-1}$ | $97543_{-1}$ | $97589_{-1}$ | $97635_{-1}$ | $97681_{-1}$ | $97727_{-1}$ |
| 9.5 | $97772_{-1}$ | $97818_{-1}$ | $97864_{-1}$ | $97909_{-1}$ | $97955_{-1}$ | $98000_{-1}$ | $98046_{-1}$ | $98091_{-1}$ | $98137_{-1}$ | $98182_{-1}$ |
| 9.6 | $98227_{-1}$ | $98272_{-1}$ | $98318_{-1}$ | $98363_{-1}$ | $98408_{-1}$ | $98453_{-1}$ | $98498_{-1}$ | $98543_{-1}$ | $98588_{-1}$ | $98632_{-1}$ |
| 9.7 | $98677_{-1}$ | $98722_{-1}$ | $98767_{-1}$ | $98811_{-1}$ | $98856_{-1}$ | $98900_{-1}$ | $98945_{-1}$ | $98989_{-1}$ | $99034_{-1}$ | $99078_{-1}$ |
| 9.8 | $99123_{-1}$ | $99167_{-1}$ | $99211_{-1}$ | $99255_{-1}$ | $99300_{-1}$ | $99344_{-1}$ | $99388_{-1}$ | $99432_{-1}$ | $99476_{-1}$ | $99520_{-1}$ |
| 9.9 | $99564_{-1}$ | $99607_{-1}$ | $99651_{-1}$ | $99695_{-1}$ | $99739_{-1}$ | $99782_{-1}$ | $99826_{-1}$ | $99870_{-1}$ | $99913_{-1}$ | $99957_{-1}$ |

# 추가 함숫값

- $\lg e = 0.43429\,44819\,03251\,82765$

- $|\Delta x| \gg 0$ 일 때,

$$\lg\left(x + \Delta x\right) = \lg\left(x\right) + \lg e \sum_{n=1}^{\infty} \frac{(-1)^{n+1}}{n}\left(\frac{\Delta x}{x}\right)^n$$

$|\Delta x| \leq 0.01$ 이면 일차 테일러 급수로 근사하면 최대 오차율은 $0.0050336$ 이고, $x \geq 3.02$ 이면 최대 오차율은 $0.0000049860$ 이다.

이차 테일러 다항식으로 근사하면 최대 오차율은 $-0.000033418$ 이고, $x \geq 1.07$ 이면 최대 오차율은 $0.0000047027$ 이다.

삼차 테일러 다항식으로 근사하면 최대 오차율은 $-0.00000025075$ 로 유효숫자 5개를 구하는 데에는 충분하다.

재무용 계산기를 사용해 이 3차 테일러 다항식의 값을 계산한다면 다음과 같은 식으로 계산하라:

$$\lg\left(x + \Delta x\right) = \left(\left(\frac{2}{3} \times \frac{\Delta x}{x} - 1\right) \times \frac{1}{2} \times \frac{\Delta x}{x} + 1\right) \times \frac{\Delta x}{x} \times \lg e + \lg x$$

- $|\Delta x| \gg 0$ 일 때,

$$10^{x + \Delta x} = 10^x \sum_{n=0}^{\infty} \frac{1}{n!}\left(\frac{\Delta x}{\lg e}\right)^n$$

해당 로그표를 사용하여 지수를 계산할 때 값을 보정하는 용도로 사용한다면 유효숫자 5개를 구하는 데에는 2차 테일러 다항식만으로도 구할 수 있다.

특히 $|\Delta x| \leq 0.0013$ 이면 1차 테일러 다항식만으로도 충분히 정확한 값을 계산할 수 있다.

재무용 계산기를 사용해 2차 테일러 다항식의 값을 계산한다면 다음과 같이 계산하라:

$$10^{x + \Delta x} = \left(\left(0.5 \times \frac{\Delta x}{\lg e} + 1\right) \times \frac{\Delta x}{\lg e} + 1\right) \times 10^x$$

# 사인 함수표

* $x \longmapsto \sin\left(\frac{\pi}{2}x\right)$ 의 표

| z | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | $0_-$ | $15708_{-3}$ | $31416_{-3}$ | $47124_{-3}$ | $62831_{-3}$ | $78539_{-3}$ | $94246_{-3}$ | $10995_{-2}$ | $12566_{-2}$ | $14137_{-2}$ |
| 0.10 | $15707_{-2}$ | $17278_{-2}$ | $18848_{-2}$ | $20419_{-2}$ | $21989_{-2}$ | $23560_{-2}$ | $25130_{-2}$ | $26700_{-2}$ | $28271_{-2}$ | $29841_{-2}$ |
| 0.20 | $31411_{-2}$ | $32981_{-2}$ | $34551_{-2}$ | $36120_{-2}$ | $37690_{-2}$ | $39260_{-2}$ | $40829_{-2}$ | $42399_{-2}$ | $43968_{-2}$ | $45537_{-2}$ |
| 0.30 | $47106_{-2}$ | $48675_{-2}$ | $50244_{-2}$ | $51813_{-2}$ | $53382_{-2}$ | $54950_{-2}$ | $56519_{-2}$ | $58087_{-2}$ | $59655_{-2}$ | $61223_{-2}$ |
| 0.40 | $62791_{-2}$ | $64358_{-2}$ | $65926_{-2}$ | $67493_{-2}$ | $69060_{-2}$ | $70627_{-2}$ | $72194_{-2}$ | $73760_{-2}$ | $75327_{-2}$ | $76893_{-2}$ |
| 0.50 | $78459_{-2}$ | $80025_{-2}$ | $81591_{-2}$ | $83156_{-2}$ | $84721_{-2}$ | $86286_{-2}$ | $87851_{-2}$ | $89416_{-2}$ | $90980_{-2}$ | $92544_{-2}$ |
| 0.60 | $94108_{-2}$ | $95672_{-2}$ | $97235_{-2}$ | $98799_{-2}$ | $10036_{-1}$ | $10192_{-1}$ | $10349_{-1}$ | $10505_{-1}$ | $10661_{-1}$ | $10817_{-1}$ |
| 0.70 | $10973_{-1}$ | $11130_{-1}$ | $11286_{-1}$ | $11442_{-1}$ | $11598_{-1}$ | $11754_{-1}$ | $11910_{-1}$ | $12066_{-1}$ | $12222_{-1}$ | $12377_{-1}$ |
| 0.80 | $12533_{-1}$ | $12689_{-1}$ | $12845_{-1}$ | $13001_{-1}$ | $13156_{-1}$ | $13312_{-1}$ | $13468_{-1}$ | $13623_{-1}$ | $13779_{-1}$ | $13935_{-1}$ |
| 0.90 | $14090_{-1}$ | $14246_{-1}$ | $14401_{-1}$ | $14557_{-1}$ | $14712_{-1}$ | $14867_{-1}$ | $15023_{-1}$ | $15178_{-1}$ | $15333_{-1}$ | $15488_{-1}$ |
| 0.10 | $15643_{-1}$ | $15799_{-1}$ | $15954_{-1}$ | $16109_{-1}$ | $16264_{-1}$ | $16419_{-1}$ | $16574_{-1}$ | $16728_{-1}$ | $16883_{-1}$ | $17038_{-1}$ |
| 0.11 | $17193_{-1}$ | $17348_{-1}$ | $17502_{-1}$ | $17657_{-1}$ | $17812_{-1}$ | $17966_{-1}$ | $18121_{-1}$ | $18275_{-1}$ | $18429_{-1}$ | $18584_{-1}$ |
| 0.12 | $18738_{-1}$ | $18892_{-1}$ | $19047_{-1}$ | $19201_{-1}$ | $19355_{-1}$ | $19509_{-1}$ | $19663_{-1}$ | $19817_{-1}$ | $19971_{-1}$ | $20125_{-1}$ |
| 0.13 | $20279_{-1}$ | $20433_{-1}$ | $20586_{-1}$ | $20740_{-1}$ | $20894_{-1}$ | $21047_{-1}$ | $21201_{-1}$ | $21354_{-1}$ | $21508_{-1}$ | $21661_{-1}$ |
| 0.14 | $21814_{-1}$ | $21968_{-1}$ | $22121_{-1}$ | $22274_{-1}$ | $22427_{-1}$ | $22580_{-1}$ | $22733_{-1}$ | $22886_{-1}$ | $23039_{-1}$ | $23192_{-1}$ |
| 0.15 | $23345_{-1}$ | $23497_{-1}$ | $23650_{-1}$ | $23802_{-1}$ | $23955_{-1}$ | $24108_{-1}$ | $24260_{-1}$ | $24412_{-1}$ | $24565_{-1}$ | $24717_{-1}$ |
| 0.16 | $24869_{-1}$ | $25021_{-1}$ | $25173_{-1}$ | $25325_{-1}$ | $25477_{-1}$ | $25629_{-1}$ | $25781_{-1}$ | $25932_{-1}$ | $26084_{-1}$ | $26236_{-1}$ |
| 0.17 | $26387_{-1}$ | $26539_{-1}$ | $26690_{-1}$ | $26842_{-1}$ | $26993_{-1}$ | $27144_{-1}$ | $27295_{-1}$ | $27446_{-1}$ | $27597_{-1}$ | $27748_{-1}$ |
| 0.18 | $27899_{-1}$ | $28050_{-1}$ | $28201_{-1}$ | $28351_{-1}$ | $28502_{-1}$ | $28652_{-1}$ | $28803_{-1}$ | $28953_{-1}$ | $29104_{-1}$ | $29254_{-1}$ |
| 0.19 | $29404_{-1}$ | $29554_{-1}$ | $29704_{-1}$ | $29854_{-1}$ | $30004_{-1}$ | $30154_{-1}$ | $30304_{-1}$ | $30453_{-1}$ | $30603_{-1}$ | $30752_{-1}$ |
| 0.20 | $30902_{-1}$ | $31051_{-1}$ | $31200_{-1}$ | $31350_{-1}$ | $31499_{-1}$ | $31648_{-1}$ | $31797_{-1}$ | $31946_{-1}$ | $32094_{-1}$ | $32243_{-1}$ |
| 0.21 | $32392_{-1}$ | $32540_{-1}$ | $32689_{-1}$ | $32837_{-1}$ | $32986_{-1}$ | $33134_{-1}$ | $33282_{-1}$ | $33430_{-1}$ | $33578_{-1}$ | $33726_{-1}$ |
| 0.22 | $33874_{-1}$ | $34022_{-1}$ | $34169_{-1}$ | $34317_{-1}$ | $34464_{-1}$ | $34612_{-1}$ | $34759_{-1}$ | $34906_{-1}$ | $35053_{-1}$ | $35201_{-1}$ |
| 0.23 | $35347_{-1}$ | $35494_{-1}$ | $35641_{-1}$ | $35788_{-1}$ | $35935_{-1}$ | $36081_{-1}$ | $36228_{-1}$ | $36374_{-1}$ | $36520_{-1}$ | $36666_{-1}$ |
| 0.24 | $36812_{-1}$ | $36958_{-1}$ | $37104_{-1}$ | $37250_{-1}$ | $37396_{-1}$ | $37542_{-1}$ | $37687_{-1}$ | $37833_{-1}$ | $37978_{-1}$ | $38123_{-1}$ |
| 0.25 | $38268_{-1}$ | $38413_{-1}$ | $38558_{-1}$ | $38703_{-1}$ | $38848_{-1}$ | $38993_{-1}$ | $39137_{-1}$ | $39282_{-1}$ | $39426_{-1}$ | $39571_{-1}$ |
| 0.26 | $39715_{-1}$ | $39859_{-1}$ | $40003_{-1}$ | $40147_{-1}$ | $40291_{-1}$ | $40434_{-1}$ | $40578_{-1}$ | $40721_{-1}$ | $40865_{-1}$ | $41008_{-1}$ |
| 0.27 | $41151_{-1}$ | $41295_{-1}$ | $41438_{-1}$ | $41580_{-1}$ | $41723_{-1}$ | $41866_{-1}$ | $42009_{-1}$ | $42151_{-1}$ | $42293_{-1}$ | $42436_{-1}$ |
| 0.28 | $42578_{-1}$ | $42720_{-1}$ | $42862_{-1}$ | $43004_{-1}$ | $43146_{-1}$ | $43287_{-1}$ | $43429_{-1}$ | $43570_{-1}$ | $43712_{-1}$ | $43853_{-1}$ |
| 0.29 | $43994_{-1}$ | $44135_{-1}$ | $44276_{-1}$ | $44417_{-1}$ | $44557_{-1}$ | $44698_{-1}$ | $44838_{-1}$ | $44979_{-1}$ | $45119_{-1}$ | $45259_{-1}$ |
| 0.30 | $45399_{-1}$ | $45539_{-1}$ | $45679_{-1}$ | $45818_{-1}$ | $45958_{-1}$ | $46097_{-1}$ | $46237_{-1}$ | $46376_{-1}$ | $46515_{-1}$ | $46654_{-1}$ |
| 0.31 | $46793_{-1}$ | $46932_{-1}$ | $47070_{-1}$ | $47209_{-1}$ | $47347_{-1}$ | $47486_{-1}$ | $47624_{-1}$ | $47762_{-1}$ | $47900_{-1}$ | $48038_{-1}$ |
| 0.32 | $48175_{-1}$ | $48313_{-1}$ | $48450_{-1}$ | $48588_{-1}$ | $48725_{-1}$ | $48862_{-1}$ | $48999_{-1}$ | $49136_{-1}$ | $49273_{-1}$ | $49409_{-1}$ |
| 0.33 | $49546_{-1}$ | $49682_{-1}$ | $49819_{-1}$ | $49955_{-1}$ | $50091_{-1}$ | $50227_{-1}$ | $50362_{-1}$ | $50498_{-1}$ | $50633_{-1}$ | $50769_{-1}$ |
| 0.34 | $50904_{-1}$ | $51039_{-1}$ | $51174_{-1}$ | $51309_{-1}$ | $51444_{-1}$ | $51579_{-1}$ | $51713_{-1}$ | $51847_{-1}$ | $51982_{-1}$ | $52116_{-1}$ |
| 0.35 | $52250_{-1}$ | $52384_{-1}$ | $52517_{-1}$ | $52651_{-1}$ | $52785_{-1}$ | $52918_{-1}$ | $53051_{-1}$ | $53184_{-1}$ | $53317_{-1}$ | $53450_{-1}$ |
| 0.36 | $53583_{-1}$ | $53715_{-1}$ | $53848_{-1}$ | $53980_{-1}$ | $54112_{-1}$ | $54244_{-1}$ | $54376_{-1}$ | $54508_{-1}$ | $54639_{-1}$ | $54771_{-1}$ |
| 0.37 | $54902_{-1}$ | $55034_{-1}$ | $55165_{-1}$ | $55296_{-1}$ | $55426_{-1}$ | $55557_{-1}$ | $55688_{-1}$ | $55818_{-1}$ | $55948_{-1}$ | $56078_{-1}$ |
| 0.38 | $56208_{-1}$ | $56338_{-1}$ | $56468_{-1}$ | $56597_{-1}$ | $56727_{-1}$ | $56856_{-1}$ | $56985_{-1}$ | $57114_{-1}$ | $57243_{-1}$ | $57372_{-1}$ |
| 0.39 | $57501_{-1}$ | $57629_{-1}$ | $57757_{-1}$ | $57885_{-1}$ | $58013_{-1}$ | $58141_{-1}$ | $58269_{-1}$ | $58397_{-1}$ | $58524_{-1}$ | $58651_{-1}$ |
| 0.40 | $58779_{-1}$ | $58906_{-1}$ | $59032_{-1}$ | $59159_{-1}$ | $59286_{-1}$ | $59412_{-1}$ | $59538_{-1}$ | $59665_{-1}$ | $59790_{-1}$ | $59916_{-1}$ |
| 0.41 | $60042_{-1}$ | $60168_{-1}$ | $60293_{-1}$ | $60418_{-1}$ | $60543_{-1}$ | $60668_{-1}$ | $60793_{-1}$ | $60918_{-1}$ | $61042_{-1}$ | $61167_{-1}$ |
| 0.42 | $61291_{-1}$ | $61415_{-1}$ | $61539_{-1}$ | $61662_{-1}$ | $61786_{-1}$ | $61909_{-1}$ | $62033_{-1}$ | $62156_{-1}$ | $62279_{-1}$ | $62402_{-1}$ |
| 0.43 | $62524_{-1}$ | $62647_{-1}$ | $62769_{-1}$ | $62891_{-1}$ | $63013_{-1}$ | $63135_{-1}$ | $63257_{-1}$ | $63379_{-1}$ | $63500_{-1}$ | $63621_{-1}$ |
| 0.44 | $63742_{-1}$ | $63863_{-1}$ | $63984_{-1}$ | $64105_{-1}$ | $64225_{-1}$ | $64346_{-1}$ | $64466_{-1}$ | $64586_{-1}$ | $64706_{-1}$ | $64825_{-1}$ |
| 0.45 | $64945_{-1}$ | $65064_{-1}$ | $65183_{-1}$ | $65302_{-1}$ | $65421_{-1}$ | $65540_{-1}$ | $65659_{-1}$ | $65777_{-1}$ | $65895_{-1}$ | $66013_{-1}$ |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.46 | $66131_{-1}$ | $66249_{-1}$ | $66367_{-1}$ | $66484_{-1}$ | $66601_{-1}$ | $66718_{-1}$ | $66835_{-1}$ | $66952_{-1}$ | $67069_{-1}$ | $67185_{-1}$ |
| 0.47 | $67301_{-1}$ | $67417_{-1}$ | $67533_{-1}$ | $67649_{-1}$ | $67765_{-1}$ | $67880_{-1}$ | $67995_{-1}$ | $68110_{-1}$ | $68225_{-1}$ | $68340_{-1}$ |
| 0.48 | $68455_{-1}$ | $68569_{-1}$ | $68683_{-1}$ | $68797_{-1}$ | $68911_{-1}$ | $69025_{-1}$ | $69139_{-1}$ | $69252_{-1}$ | $69365_{-1}$ | $69478_{-1}$ |
| 0.49 | $69591_{-1}$ | $69704_{-1}$ | $69817_{-1}$ | $69929_{-1}$ | $70041_{-1}$ | $70153_{-1}$ | $70265_{-1}$ | $70377_{-1}$ | $70488_{-1}$ | $70600_{-1}$ |
| 0.50 | $70711_{-1}$ | $70822_{-1}$ | $70932_{-1}$ | $71043_{-1}$ | $71154_{-1}$ | $71264_{-1}$ | $71374_{-1}$ | $71484_{-1}$ | $71594_{-1}$ | $71703_{-1}$ |
| 0.51 | $71813_{-1}$ | $71922_{-1}$ | $72031_{-1}$ | $72140_{-1}$ | $72248_{-1}$ | $72357_{-1}$ | $72465_{-1}$ | $72573_{-1}$ | $72681_{-1}$ | $72789_{-1}$ |
| 0.52 | $72897_{-1}$ | $73004_{-1}$ | $73112_{-1}$ | $73219_{-1}$ | $73326_{-1}$ | $73432_{-1}$ | $73539_{-1}$ | $73645_{-1}$ | $73751_{-1}$ | $73857_{-1}$ |
| 0.53 | $73963_{-1}$ | $74069_{-1}$ | $74174_{-1}$ | $74279_{-1}$ | $74385_{-1}$ | $74489_{-1}$ | $74594_{-1}$ | $74699_{-1}$ | $74803_{-1}$ | $74907_{-1}$ |
| 0.54 | $75011_{-1}$ | $75115_{-1}$ | $75218_{-1}$ | $75322_{-1}$ | $75425_{-1}$ | $75528_{-1}$ | $75631_{-1}$ | $75734_{-1}$ | $75836_{-1}$ | $75938_{-1}$ |
| 0.55 | $76041_{-1}$ | $76143_{-1}$ | $76244_{-1}$ | $76346_{-1}$ | $76447_{-1}$ | $76548_{-1}$ | $76649_{-1}$ | $76750_{-1}$ | $76851_{-1}$ | $76951_{-1}$ |
| 0.56 | $77051_{-1}$ | $77151_{-1}$ | $77251_{-1}$ | $77351_{-1}$ | $77450_{-1}$ | $77550_{-1}$ | $77649_{-1}$ | $77748_{-1}$ | $77846_{-1}$ | $77945_{-1}$ |
| 0.57 | $78043_{-1}$ | $78141_{-1}$ | $78239_{-1}$ | $78337_{-1}$ | $78434_{-1}$ | $78532_{-1}$ | $78629_{-1}$ | $78726_{-1}$ | $78823_{-1}$ | $78919_{-1}$ |
| 0.58 | $79016_{-1}$ | $79112_{-1}$ | $79208_{-1}$ | $79303_{-1}$ | $79399_{-1}$ | $79494_{-1}$ | $79590_{-1}$ | $79685_{-1}$ | $79779_{-1}$ | $79874_{-1}$ |
| 0.59 | $79968_{-1}$ | $80063_{-1}$ | $80157_{-1}$ | $80251_{-1}$ | $80344_{-1}$ | $80438_{-1}$ | $80531_{-1}$ | $80624_{-1}$ | $80717_{-1}$ | $80809_{-1}$ |
| 0.60 | $80902_{-1}$ | $80994_{-1}$ | $81086_{-1}$ | $81178_{-1}$ | $81269_{-1}$ | $81361_{-1}$ | $81452_{-1}$ | $81543_{-1}$ | $81634_{-1}$ | $81725_{-1}$ |
| 0.61 | $81815_{-1}$ | $81905_{-1}$ | $81995_{-1}$ | $82085_{-1}$ | $82175_{-1}$ | $82264_{-1}$ | $82353_{-1}$ | $82442_{-1}$ | $82531_{-1}$ | $82620_{-1}$ |
| 0.62 | $82708_{-1}$ | $82796_{-1}$ | $82884_{-1}$ | $82972_{-1}$ | $83060_{-1}$ | $83147_{-1}$ | $83234_{-1}$ | $83321_{-1}$ | $83408_{-1}$ | $83494_{-1}$ |
| 0.63 | $83581_{-1}$ | $83667_{-1}$ | $83753_{-1}$ | $83839_{-1}$ | $83924_{-1}$ | $84009_{-1}$ | $84094_{-1}$ | $84179_{-1}$ | $84264_{-1}$ | $84349_{-1}$ |
| 0.64 | $84433_{-1}$ | $84517_{-1}$ | $84601_{-1}$ | $84684_{-1}$ | $84768_{-1}$ | $84851_{-1}$ | $84934_{-1}$ | $85017_{-1}$ | $85099_{-1}$ | $85182_{-1}$ |
| 0.65 | $85264_{-1}$ | $85346_{-1}$ | $85428_{-1}$ | $85509_{-1}$ | $85591_{-1}$ | $85672_{-1}$ | $85753_{-1}$ | $85833_{-1}$ | $85914_{-1}$ | $85994_{-1}$ |
| 0.66 | $86074_{-1}$ | $86154_{-1}$ | $86234_{-1}$ | $86313_{-1}$ | $86392_{-1}$ | $86471_{-1}$ | $86550_{-1}$ | $86629_{-1}$ | $86707_{-1}$ | $86785_{-1}$ |
| 0.67 | $86863_{-1}$ | $86941_{-1}$ | $87018_{-1}$ | $87096_{-1}$ | $87173_{-1}$ | $87250_{-1}$ | $87326_{-1}$ | $87403_{-1}$ | $87479_{-1}$ | $87555_{-1}$ |
| 0.68 | $87631_{-1}$ | $87706_{-1}$ | $87782_{-1}$ | $87857_{-1}$ | $87932_{-1}$ | $88006_{-1}$ | $88081_{-1}$ | $88155_{-1}$ | $88229_{-1}$ | $88303_{-1}$ |
| 0.69 | $88377_{-1}$ | $88450_{-1}$ | $88523_{-1}$ | $88596_{-1}$ | $88669_{-1}$ | $88741_{-1}$ | $88814_{-1}$ | $88886_{-1}$ | $88958_{-1}$ | $89029_{-1}$ |
| 0.70 | $89101_{-1}$ | $89172_{-1}$ | $89243_{-1}$ | $89314_{-1}$ | $89384_{-1}$ | $89454_{-1}$ | $89525_{-1}$ | $89594_{-1}$ | $89664_{-1}$ | $89734_{-1}$ |
| 0.71 | $89803_{-1}$ | $89872_{-1}$ | $89941_{-1}$ | $90009_{-1}$ | $90077_{-1}$ | $90146_{-1}$ | $90213_{-1}$ | $90281_{-1}$ | $90348_{-1}$ | $90416_{-1}$ |
| 0.72 | $90483_{-1}$ | $90549_{-1}$ | $90616_{-1}$ | $90682_{-1}$ | $90748_{-1}$ | $90814_{-1}$ | $90880_{-1}$ | $90945_{-1}$ | $91011_{-1}$ | $91076_{-1}$ |
| 0.73 | $91140_{-1}$ | $91205_{-1}$ | $91269_{-1}$ | $91333_{-1}$ | $91397_{-1}$ | $91461_{-1}$ | $91524_{-1}$ | $91587_{-1}$ | $91650_{-1}$ | $91713_{-1}$ |
| 0.74 | $91775_{-1}$ | $91838_{-1}$ | $91900_{-1}$ | $91962_{-1}$ | $92023_{-1}$ | $92085_{-1}$ | $92146_{-1}$ | $92207_{-1}$ | $92267_{-1}$ | $92328_{-1}$ |
| 0.75 | $92388_{-1}$ | $92448_{-1}$ | $92508_{-1}$ | $92567_{-1}$ | $92627_{-1}$ | $92686_{-1}$ | $92745_{-1}$ | $92803_{-1}$ | $92862_{-1}$ | $92920_{-1}$ |
| 0.76 | $92978_{-1}$ | $93035_{-1}$ | $93093_{-1}$ | $93150_{-1}$ | $93207_{-1}$ | $93264_{-1}$ | $93320_{-1}$ | $93377_{-1}$ | $93433_{-1}$ | $93489_{-1}$ |
| 0.77 | $93544_{-1}$ | $93600_{-1}$ | $93655_{-1}$ | $93710_{-1}$ | $93765_{-1}$ | $93819_{-1}$ | $93873_{-1}$ | $93927_{-1}$ | $93981_{-1}$ | $94035_{-1}$ |
| 0.78 | $94088_{-1}$ | $94141_{-1}$ | $94194_{-1}$ | $94247_{-1}$ | $94299_{-1}$ | $94351_{-1}$ | $94403_{-1}$ | $94455_{-1}$ | $94506_{-1}$ | $94558_{-1}$ |
| 0.79 | $94609_{-1}$ | $94659_{-1}$ | $94710_{-1}$ | $94760_{-1}$ | $94810_{-1}$ | $94860_{-1}$ | $94910_{-1}$ | $94959_{-1}$ | $95008_{-1}$ | $95057_{-1}$ |
| 0.80 | $95106_{-1}$ | $95154_{-1}$ | $95202_{-1}$ | $95250_{-1}$ | $95298_{-1}$ | $95345_{-1}$ | $95393_{-1}$ | $95440_{-1}$ | $95486_{-1}$ | $95533_{-1}$ |
| 0.81 | $95579_{-1}$ | $95625_{-1}$ | $95671_{-1}$ | $95717_{-1}$ | $95762_{-1}$ | $95807_{-1}$ | $95852_{-1}$ | $95897_{-1}$ | $95941_{-1}$ | $95985_{-1}$ |
| 0.82 | $96029_{-1}$ | $96073_{-1}$ | $96117_{-1}$ | $96160_{-1}$ | $96203_{-1}$ | $96246_{-1}$ | $96288_{-1}$ | $96330_{-1}$ | $96372_{-1}$ | $96414_{-1}$ |
| 0.83 | $96456_{-1}$ | $96497_{-1}$ | $96538_{-1}$ | $96579_{-1}$ | $96620_{-1}$ | $96660_{-1}$ | $96700_{-1}$ | $96740_{-1}$ | $96780_{-1}$ | $96819_{-1}$ |
| 0.84 | $96858_{-1}$ | $96897_{-1}$ | $96936_{-1}$ | $96974_{-1}$ | $97013_{-1}$ | $97051_{-1}$ | $97088_{-1}$ | $97126_{-1}$ | $97163_{-1}$ | $97200_{-1}$ |
| 0.85 | $97237_{-1}$ | $97274_{-1}$ | $97310_{-1}$ | $97346_{-1}$ | $97382_{-1}$ | $97417_{-1}$ | $97453_{-1}$ | $97488_{-1}$ | $97523_{-1}$ | $97557_{-1}$ |
| 0.86 | $97592_{-1}$ | $97626_{-1}$ | $97660_{-1}$ | $97693_{-1}$ | $97727_{-1}$ | $97760_{-1}$ | $97793_{-1}$ | $97826_{-1}$ | $97858_{-1}$ | $97890_{-1}$ |
| 0.87 | $97922_{-1}$ | $97954_{-1}$ | $97986_{-1}$ | $98017_{-1}$ | $98048_{-1}$ | $98079_{-1}$ | $98109_{-1}$ | $98139_{-1}$ | $98169_{-1}$ | $98199_{-1}$ |
| 0.88 | $98229_{-1}$ | $98258_{-1}$ | $98287_{-1}$ | $98316_{-1}$ | $98345_{-1}$ | $98373_{-1}$ | $98401_{-1}$ | $98429_{-1}$ | $98456_{-1}$ | $98484_{-1}$ |
| 0.89 | $98511_{-1}$ | $98538_{-1}$ | $98564_{-1}$ | $98591_{-1}$ | $98617_{-1}$ | $98643_{-1}$ | $98669_{-1}$ | $98694_{-1}$ | $98719_{-1}$ | $98744_{-1}$ |
| 0.90 | $98769_{-1}$ | $98793_{-1}$ | $98817_{-1}$ | $98841_{-1}$ | $98865_{-1}$ | $98889_{-1}$ | $98912_{-1}$ | $98935_{-1}$ | $98958_{-1}$ | $98980_{-1}$ |
| 0.91 | $99002_{-1}$ | $99024_{-1}$ | $99046_{-1}$ | $99068_{-1}$ | $99089_{-1}$ | $99110_{-1}$ | $99131_{-1}$ | $99151_{-1}$ | $99172_{-1}$ | $99192_{-1}$ |
| 0.92 | $99211_{-1}$ | $99231_{-1}$ | $99250_{-1}$ | $99269_{-1}$ | $99288_{-1}$ | $99307_{-1}$ | $99325_{-1}$ | $99343_{-1}$ | $99361_{-1}$ | $99379_{-1}$ |
| 0.93 | $99396_{-1}$ | $99413_{-1}$ | $99430_{-1}$ | $99447_{-1}$ | $99463_{-1}$ | $99479_{-1}$ | $99495_{-1}$ | $99511_{-1}$ | $99526_{-1}$ | $99541_{-1}$ |
| 0.94 | $99556_{-1}$ | $99571_{-1}$ | $99585_{-1}$ | $99599_{-1}$ | $99613_{-1}$ | $99627_{-1}$ | $99640_{-1}$ | $99654_{-1}$ | $99667_{-1}$ | $99679_{-1}$ |
| 0.95 | $99692_{-1}$ | $99704_{-1}$ | $99716_{-1}$ | $99728_{-1}$ | $99739_{-1}$ | $99750_{-1}$ | $99761_{-1}$ | $99772_{-1}$ | $99782_{-1}$ | $99793_{-1}$ |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 0.96 | $99803_{-1}$ | $99812_{-1}$ | $99822_{-1}$ | $99831_{-1}$ | $99840_{-1}$ | $99849_{-1}$ | $99857_{-1}$ | $99866_{-1}$ | $99874_{-1}$ | $99881_{-1}$ |
| 0.97 | $99889_{-1}$ | $99896_{-1}$ | $99903_{-1}$ | $99910_{-1}$ | $99917_{-1}$ | $99923_{-1}$ | $99929_{-1}$ | $99935_{-1}$ | $99940_{-1}$ | $99946_{-1}$ |
| 0.98 | $99951_{-1}$ | $99955_{-1}$ | $99960_{-1}$ | $99964_{-1}$ | $99968_{-1}$ | $99972_{-1}$ | $99976_{-1}$ | $99979_{-1}$ | $99982_{-1}$ | $99985_{-1}$ |
| 0.99 | $99988_{-1}$ | $99990_{-1}$ | $99992_{-1}$ | $99994_{-1}$ | $99996_{-1}$ | $99997_{-1}$ | $99998_{-1}$ | $99999_{-1}$ | $10000_{+0}$ | $10000_{+0}$ |

## 추가 함숫값

- $\Delta x \gg 0$ 일 때,

$$\sin\left(\frac{\pi}{2}\left(x + \Delta x\right)\right) \approx \sin\left(\frac{\pi}{2}x\right) + \frac{\pi}{2}\sqrt{1 - \sin^2\left(\frac{\pi}{2}x\right)}\Delta x$$

$\Delta x \leq 0.0005$ 일 때, 최대 $0.00003\%$ 오차를 가진다.

# 정규분포표

* $Z \sim \mathrm{N}\left(0,\ 1^2\right)$ 일 때 $\mathrm{P}\left(0 \le Z \le z\right)$ 의 값

| $z$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | $0_-$ | $39894_{-3}$ | $79783_{-3}$ | $11966_{-2}$ | $15953_{-2}$ | $19939_{-2}$ | $23922_{-2}$ | $27903_{-2}$ | $31881_{-2}$ | $35856_{-2}$ |
| 0.1 | $39828_{-2}$ | $43795_{-2}$ | $47758_{-2}$ | $51717_{-2}$ | $55670_{-2}$ | $59618_{-2}$ | $63559_{-2}$ | $67495_{-2}$ | $71424_{-2}$ | $75345_{-2}$ |
| 0.2 | $79260_{-2}$ | $83166_{-2}$ | $87064_{-2}$ | $90954_{-2}$ | $94835_{-2}$ | $98706_{-2}$ | $10257_{-1}$ | $10642_{-1}$ | $11026_{-1}$ | $11409_{-1}$ |
| 0.3 | $11791_{-1}$ | $12172_{-1}$ | $12552_{-1}$ | $12930_{-1}$ | $13307_{-1}$ | $13683_{-1}$ | $14058_{-1}$ | $14431_{-1}$ | $14803_{-1}$ | $15173_{-1}$ |
| 0.4 | $15542_{-1}$ | $15910_{-1}$ | $16276_{-1}$ | $16640_{-1}$ | $17003_{-1}$ | $17364_{-1}$ | $17724_{-1}$ | $18082_{-1}$ | $18439_{-1}$ | $18793_{-1}$ |
| 0.5 | $19146_{-1}$ | $19497_{-1}$ | $19847_{-1}$ | $20194_{-1}$ | $20540_{-1}$ | $20884_{-1}$ | $21226_{-1}$ | $21566_{-1}$ | $21904_{-1}$ | $22240_{-1}$ |
| 0.6 | $22575_{-1}$ | $22907_{-1}$ | $23237_{-1}$ | $23565_{-1}$ | $23891_{-1}$ | $24215_{-1}$ | $24537_{-1}$ | $24857_{-1}$ | $25175_{-1}$ | $25490_{-1}$ |
| 0.7 | $25804_{-1}$ | $26115_{-1}$ | $26424_{-1}$ | $26730_{-1}$ | $27035_{-1}$ | $27337_{-1}$ | $27637_{-1}$ | $27935_{-1}$ | $28230_{-1}$ | $28524_{-1}$ |
| 0.8 | $28814_{-1}$ | $29103_{-1}$ | $29389_{-1}$ | $29673_{-1}$ | $29955_{-1}$ | $30234_{-1}$ | $30511_{-1}$ | $30785_{-1}$ | $31057_{-1}$ | $31327_{-1}$ |
| 0.9 | $31594_{-1}$ | $31859_{-1}$ | $32121_{-1}$ | $32381_{-1}$ | $32639_{-1}$ | $32894_{-1}$ | $33147_{-1}$ | $33398_{-1}$ | $33646_{-1}$ | $33891_{-1}$ |
| 1.0 | $34134_{-1}$ | $34375_{-1}$ | $34614_{-1}$ | $34849_{-1}$ | $35083_{-1}$ | $35314_{-1}$ | $35543_{-1}$ | $35769_{-1}$ | $35993_{-1}$ | $36214_{-1}$ |
| 1.1 | $36433_{-1}$ | $36650_{-1}$ | $36864_{-1}$ | $37076_{-1}$ | $37286_{-1}$ | $37493_{-1}$ | $37698_{-1}$ | $37900_{-1}$ | $38100_{-1}$ | $38298_{-1}$ |
| 1.2 | $38493_{-1}$ | $38686_{-1}$ | $38877_{-1}$ | $39065_{-1}$ | $39251_{-1}$ | $39435_{-1}$ | $39617_{-1}$ | $39796_{-1}$ | $39973_{-1}$ | $40147_{-1}$ |
| 1.3 | $40320_{-1}$ | $40490_{-1}$ | $40658_{-1}$ | $40824_{-1}$ | $40988_{-1}$ | $41149_{-1}$ | $41309_{-1}$ | $41466_{-1}$ | $41621_{-1}$ | $41774_{-1}$ |
| 1.4 | $41924_{-1}$ | $42073_{-1}$ | $42220_{-1}$ | $42364_{-1}$ | $42507_{-1}$ | $42647_{-1}$ | $42785_{-1}$ | $42922_{-1}$ | $43056_{-1}$ | $43189_{-1}$ |
| 1.5 | $43319_{-1}$ | $43448_{-1}$ | $43574_{-1}$ | $43699_{-1}$ | $43822_{-1}$ | $43943_{-1}$ | $44062_{-1}$ | $44179_{-1}$ | $44295_{-1}$ | $44408_{-1}$ |
| 1.6 | $44520_{-1}$ | $44630_{-1}$ | $44738_{-1}$ | $44845_{-1}$ | $44950_{-1}$ | $45053_{-1}$ | $45154_{-1}$ | $45254_{-1}$ | $45352_{-1}$ | $45449_{-1}$ |
| 1.7 | $45543_{-1}$ | $45637_{-1}$ | $45728_{-1}$ | $45818_{-1}$ | $45907_{-1}$ | $45994_{-1}$ | $46080_{-1}$ | $46164_{-1}$ | $46246_{-1}$ | $46327_{-1}$ |
| 1.8 | $46407_{-1}$ | $46485_{-1}$ | $46562_{-1}$ | $46638_{-1}$ | $46712_{-1}$ | $46784_{-1}$ | $46856_{-1}$ | $46926_{-1}$ | $46995_{-1}$ | $47062_{-1}$ |
| 1.9 | $47128_{-1}$ | $47193_{-1}$ | $47257_{-1}$ | $47320_{-1}$ | $47381_{-1}$ | $47441_{-1}$ | $47500_{-1}$ | $47558_{-1}$ | $47615_{-1}$ | $47670_{-1}$ |
| 2.0 | $47725_{-1}$ | $47778_{-1}$ | $47831_{-1}$ | $47882_{-1}$ | $47932_{-1}$ | $47982_{-1}$ | $48030_{-1}$ | $48077_{-1}$ | $48124_{-1}$ | $48169_{-1}$ |
| 2.1 | $48214_{-1}$ | $48257_{-1}$ | $48300_{-1}$ | $48341_{-1}$ | $48382_{-1}$ | $48422_{-1}$ | $48461_{-1}$ | $48500_{-1}$ | $48537_{-1}$ | $48574_{-1}$ |
| 2.2 | $48610_{-1}$ | $48645_{-1}$ | $48679_{-1}$ | $48713_{-1}$ | $48745_{-1}$ | $48778_{-1}$ | $48809_{-1}$ | $48840_{-1}$ | $48870_{-1}$ | $48899_{-1}$ |
| 2.3 | $48928_{-1}$ | $48956_{-1}$ | $48983_{-1}$ | $49010_{-1}$ | $49036_{-1}$ | $49061_{-1}$ | $49086_{-1}$ | $49111_{-1}$ | $49134_{-1}$ | $49158_{-1}$ |
| 2.4 | $49180_{-1}$ | $49202_{-1}$ | $49224_{-1}$ | $49245_{-1}$ | $49266_{-1}$ | $49286_{-1}$ | $49305_{-1}$ | $49324_{-1}$ | $49343_{-1}$ | $49361_{-1}$ |
| 2.5 | $49379_{-1}$ | $49396_{-1}$ | $49413_{-1}$ | $49430_{-1}$ | $49446_{-1}$ | $49461_{-1}$ | $49477_{-1}$ | $49492_{-1}$ | $49506_{-1}$ | $49520_{-1}$ |
| 2.6 | $49534_{-1}$ | $49547_{-1}$ | $49560_{-1}$ | $49573_{-1}$ | $49585_{-1}$ | $49598_{-1}$ | $49609_{-1}$ | $49621_{-1}$ | $49632_{-1}$ | $49643_{-1}$ |
| 2.7 | $49653_{-1}$ | $49664_{-1}$ | $49674_{-1}$ | $49683_{-1}$ | $49693_{-1}$ | $49702_{-1}$ | $49711_{-1}$ | $49720_{-1}$ | $49728_{-1}$ | $49736_{-1}$ |
| 2.8 | $49744_{-1}$ | $49752_{-1}$ | $49760_{-1}$ | $49767_{-1}$ | $49774_{-1}$ | $49781_{-1}$ | $49788_{-1}$ | $49795_{-1}$ | $49801_{-1}$ | $49807_{-1}$ |
| 2.9 | $49813_{-1}$ | $49819_{-1}$ | $49825_{-1}$ | $49831_{-1}$ | $49836_{-1}$ | $49841_{-1}$ | $49846_{-1}$ | $49851_{-1}$ | $49856_{-1}$ | $49861_{-1}$ |
| 3.0 | $49865_{-1}$ | $49869_{-1}$ | $49874_{-1}$ | $49878_{-1}$ | $49882_{-1}$ | $49886_{-1}$ | $49889_{-1}$ | $49893_{-1}$ | $49896_{-1}$ | $49900_{-1}$ |
| 3.1 | $49903_{-1}$ | $49906_{-1}$ | $49910_{-1}$ | $49913_{-1}$ | $49916_{-1}$ | $49918_{-1}$ | $49921_{-1}$ | $49924_{-1}$ | $49926_{-1}$ | $49929_{-1}$ |
| 3.2 | $49931_{-1}$ | $49934_{-1}$ | $49936_{-1}$ | $49938_{-1}$ | $49940_{-1}$ | $49942_{-1}$ | $49944_{-1}$ | $49946_{-1}$ | $49948_{-1}$ | $49950_{-1}$ |
| 3.3 | $49952_{-1}$ | $49953_{-1}$ | $49955_{-1}$ | $49957_{-1}$ | $49958_{-1}$ | $49960_{-1}$ | $49961_{-1}$ | $49962_{-1}$ | $49964_{-1}$ | $49965_{-1}$ |
| 3.4 | $49966_{-1}$ | $49968_{-1}$ | $49969_{-1}$ | $49970_{-1}$ | $49971_{-1}$ | $49972_{-1}$ | $49973_{-1}$ | $49974_{-1}$ | $49975_{-1}$ | $49976_{-1}$ |
| 3.5 | $49977_{-1}$ | $49978_{-1}$ | $49978_{-1}$ | $49979_{-1}$ | $49980_{-1}$ | $49981_{-1}$ | $49981_{-1}$ | $49982_{-1}$ | $49983_{-1}$ | $49983_{-1}$ |
| 3.6 | $49984_{-1}$ | $49985_{-1}$ | $49985_{-1}$ | $49986_{-1}$ | $49986_{-1}$ | $49987_{-1}$ | $49987_{-1}$ | $49988_{-1}$ | $49988_{-1}$ | $49989_{-1}$ |
| 3.7 | $49989_{-1}$ | $49990_{-1}$ | $49990_{-1}$ | $49990_{-1}$ | $49991_{-1}$ | $49991_{-1}$ | $49992_{-1}$ | $49992_{-1}$ | $49992_{-1}$ | $49992_{-1}$ |
| 3.8 | $49993_{-1}$ | $49993_{-1}$ | $49993_{-1}$ | $49994_{-1}$ | $49994_{-1}$ | $49994_{-1}$ | $49994_{-1}$ | $49995_{-1}$ | $49995_{-1}$ | $49995_{-1}$ |
| 3.9 | $49995_{-1}$ | $49995_{-1}$ | $49996_{-1}$ | $49996_{-1}$ | $49996_{-1}$ | $49996_{-1}$ | $49996_{-1}$ | $49996_{-1}$ | $49997_{-1}$ | $49997_{-1}$ |

# 소수의 목록

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 3 | 5 | 7 | 11 | 13 | 17 | 19 | 23 | 29 | 31 | 37 |
| 41 | 43 | 47 | 53 | 59 | 61 | 67 | 71 | 73 | 79 | 83 | 89 |
| 97 | 101 | 103 | 107 | 109 | 113 | 127 | 131 | 137 | 139 | 149 | 151 |
| 157 | 163 | 167 | 173 | 179 | 181 | 191 | 193 | 197 | 199 | 211 | 223 |
| 227 | 229 | 233 | 239 | 241 | 251 | 257 | 263 | 269 | 271 | 277 | 281 |
| 283 | 293 | 307 | 311 | 313 | 317 | 331 | 337 | 347 | 349 | 353 | 359 |
| 367 | 373 | 379 | 383 | 389 | 397 | 401 | 409 | 419 | 421 | 431 | 433 |
| 439 | 443 | 449 | 457 | 461 | 463 | 467 | 479 | 487 | 491 | 499 | 503 |
| 509 | 521 | 523 | 541 | 547 | 557 | 563 | 569 | 571 | 577 | 587 | 593 |
| 599 | 601 | 607 | 613 | 617 | 619 | 631 | 641 | 643 | 647 | 653 | 659 |
| 661 | 673 | 677 | 683 | 691 | 701 | 709 | 719 | 727 | 733 | 739 | 743 |
| 751 | 757 | 761 | 769 | 773 | 787 | 797 | 809 | 811 | 821 | 823 | 827 |
| 829 | 839 | 853 | 857 | 859 | 863 | 877 | 881 | 883 | 887 | 907 | 911 |
| 919 | 929 | 937 | 941 | 947 | 953 | 967 | 971 | 977 | 983 | 991 | 997 |
| 1009 | 1013 | 1019 | 1021 | 1031 | 1033 | 1039 | 1049 | 1051 | 1061 | 1063 | 1069 |
| 1087 | 1091 | 1093 | 1097 | 1103 | 1109 | 1117 | 1123 | 1129 | 1151 | 1153 | 1163 |
| 1171 | 1181 | 1187 | 1193 | 1201 | 1213 | 1217 | 1223 | 1229 | 1231 | 1237 | 1249 |
| 1259 | 1277 | 1279 | 1283 | 1289 | 1291 | 1297 | 1301 | 1303 | 1307 | 1319 | 1321 |
| 1327 | 1361 | 1367 | 1373 | 1381 | 1399 | 1409 | 1423 | 1427 | 1429 | 1433 | 1439 |
| 1447 | 1451 | 1453 | 1459 | 1471 | 1481 | 1483 | 1487 | 1489 | 1493 | 1499 | 1511 |
| 1523 | 1531 | 1543 | 1549 | 1553 | 1559 | 1567 | 1571 | 1579 | 1583 | 1597 | 1601 |
| 1607 | 1609 | 1613 | 1619 | 1621 | 1627 | 1637 | 1657 | 1663 | 1667 | 1669 | 1693 |
| 1697 | 1699 | 1709 | 1721 | 1723 | 1733 | 1741 | 1747 | 1753 | 1759 | 1777 | 1783 |
| 1787 | 1789 | 1801 | 1811 | 1823 | 1831 | 1847 | 1861 | 1867 | 1871 | 1873 | 1877 |
| 1879 | 1889 | 1901 | 1907 | 1913 | 1931 | 1933 | 1949 | 1951 | 1973 | 1979 | 1987 |
| 1993 | 1997 | 1999 | 2003 | 2011 | 2017 | 2027 | 2029 | 2039 | 2053 | 2063 | 2069 |
| 2081 | 2083 | 2087 | 2089 | 2099 | 2111 | 2113 | 2129 | 2131 | 2137 | 2141 | 2143 |
| 2153 | 2161 | 2179 | 2203 | 2207 | 2213 | 2221 | 2237 | 2239 | 2243 | 2251 | 2267 |
| 2269 | 2273 | 2281 | 2287 | 2293 | 2297 | 2309 | 2311 | 2333 | 2339 | 2341 | 2347 |
| 2351 | 2357 | 2371 | 2377 | 2381 | 2383 | 2389 | 2393 | 2399 | 2411 | 2417 | 2423 |
| 2437 | 2441 | 2447 | 2459 | 2467 | 2473 | 2477 | 2503 | 2521 | 2531 | 2539 | 2543 |
| 2549 | 2551 | 2557 | 2579 | 2591 | 2593 | 2609 | 2617 | 2621 | 2633 | 2647 | 2657 |
| 2659 | 2663 | 2671 | 2677 | 2683 | 2687 | 2689 | 2693 | 2699 | 2707 | 2711 | 2713 |
| 2719 | 2729 | 2731 | 2741 | 2749 | 2753 | 2767 | 2777 | 2789 | 2791 | 2797 | 2801 |
| 2803 | 2819 | 2833 | 2837 | 2843 | 2851 | 2857 | 2861 | 2879 | 2887 | 2897 | 2903 |