

### 1.3 FLOATING POINT NUMBER SYSTEMS

1. Provide the floating point equivalent for each of the following numbers from the floating point number system  $F(10, 4, 0, 4)$ . Consider both chopping and rounding. Compute the absolute and relative error in each floating point equivalent.
- |                     |              |
|---------------------|--------------|
| (a) $\pi$           | (b) $e$      |
| (c) $\sqrt{2}$      | (d) $1/7$    |
| (e) $\cos 22^\circ$ | (f) $\ln 10$ |
| (g) $\zeta^5$       |              |

In the following table,  $\delta$  denotes the absolute error and  $\epsilon$  the relative error.

$y$	$f(y)$	Chopping error	$f(y)$	Rounding error
$\pi$	3.141	$\delta = 5.927 \times 10^{-4}$ $\epsilon = 1.886 \times 10^{-4}$	3.142	$\delta = 4.073 \times 10^{-4}$ $\epsilon = 1.297 \times 10^{-4}$
$e$	2.718	$\delta = 2.818 \times 10^{-4}$ $\epsilon = 1.037 \times 10^{-4}$	2.718	$\delta = 2.818 \times 10^{-4}$ $\epsilon = 1.037 \times 10^{-4}$
$\sqrt{2}$	1.414	$\delta = 2.136 \times 10^{-4}$ $\epsilon = 1.510 \times 10^{-4}$	1.414	$\delta = 2.136 \times 10^{-4}$ $\epsilon = 1.510 \times 10^{-4}$
$1/7$	0.1428	$\delta = 5.714 \times 10^{-4}$ $\epsilon = 4.000 \times 10^{-4}$	0.1429	$\delta = 4.286 \times 10^{-4}$ $\epsilon = 3.000 \times 10^{-4}$
$\cos 22^\circ$	0.9271	$\delta = 8.385 \times 10^{-5}$ $\epsilon = 9.044 \times 10^{-5}$	0.9272	$\delta = 1.615 \times 10^{-5}$ $\epsilon = 1.741 \times 10^{-5}$
$\ln 10$	2.302	$\delta = 5.851 \times 10^{-4}$ $\epsilon = 2.541 \times 10^{-4}$	2.303	$\delta = 4.149 \times 10^{-4}$ $\epsilon = 1.802 \times 10^{-4}$
$\zeta^5$	2.080	$\delta = 8.382 \times 10^{-5}$ $\epsilon = 4.030 \times 10^{-5}$	2.080	$\delta = 8.382 \times 10^{-5}$ $\epsilon = 4.030 \times 10^{-5}$

2. Prove the bounds on the absolute and relative roundoff error associated with rounding:

$$|f_{\text{round}}(y) - y| \leq \frac{1}{2} \beta^{t-k} \quad \text{and} \quad \frac{|f_{\text{round}}(y) - y|}{|y|} \leq \frac{1}{2} \beta^{t-k}.$$

Consider the floating point system  $F(\beta, k, m, M)$  with rounding. Let  $y$  be a real number whose expansion is given by

$$y = \pm (0.d_1 d_2 d_3 \dots d_k d_{k+1} \dots)_\beta \times \beta^r$$

# A Friendly Introduction To Numerical Analysis Solutions

**Kendall Atkinson**



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