Solutions Manual for Friendly Introduction To Numerical Analysis 1st Edition by Bradie
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1.3 Floating Point Number Systems

1. Provide the floating point equivalent for each of the following numbers from the floating point number system $\mathbf{F}(10, 4, 0, 4)$. Consider both chopping and rounding. Compute the absolute and relative error in each floating point equivalent.

(a) π **(b)** e
(c) $\sqrt{2}$ **(d)** $1/7$
(e) $\cos 22^\circ$ **(f)** $\ln 10$
(g) $\sqrt[3]{9}$

In the following table, δ denotes the absolute error and ϵ the relative error.

	Chopping		Rounding	
y	$fl(y)$	error	$fl(y)$	error
π	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	$\delta = 5.714 \times 10^{-5}$ $\epsilon = 4.000 \times 10^{-4}$	0.1429	$\delta = 4.286 \times 10^{-5}$ $\epsilon = 3.000 \times 10^{-4}$
$\cos 22^\circ$	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	$\delta = 4.149 \times 10^{-4}$ $\epsilon = 1.802 \times 10^{-4}$
$\sqrt[3]{9}$	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:

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

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

$$y = \pm(0.d_1d_2d_3d_4 \cdots d_nd_{n+1} \cdots)_\beta \times \beta^e$$

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