$x = 3.12$

$f(x) = 1 - \cos(3.12)$

$\quad = 1 - (-0.99976688)$

$\quad = 2.33112 \times 10^{-4}$

CALC. W/ HIGH PRECISION...
ASSUME ACUAL VALUE

NOW, W/ 3 DIG. ARI.

$f(x) = 1 - (-1.00)$

$\quad = 0.0...$