

Exercises

1. Find the relative error in computation of $x+y$ for $x=13.64$ and $y=5.28$ having absolute errors $\Delta x=0.005$ and $\Delta y=0.002$ respectively.
2. Find the relative error in computation of $x-y$ for $x=20.91$ and $y=9.27$ having absolute errors $\Delta x=0.003$ and $\Delta y=0.001$ respectively.
3. Find the value of $\sqrt{10} - \pi$ correct to five significant figures.
4. Solve the equation $x^2+9.9x-1=0$ by using two digit arithmetic with rounding.