

| Step | Bisection Method | Inverse Linear Interpolation | Secant Method |
|------|------------------|------------------------------|------------------|
| 1 | 1.5 | 1.33333333333333 | 1.33333333333333 |
| 2 | 1.25 | 1.40000000000000 | 1.40000000000000 |
| 3 | 1.375 | 1.41176470588235 | 1.41463414634146 |
| 4 | 1.4375 | 1.41379310344828 | 1.41421143847487 |
| 5 | 1.40625 | 1.41414141414141 | 1.41421356205732 |
| 6 | 1.421875 | 1.41420118343195 | 1.41421356237310 |
| 7 | 1.4140625 | 1.41421143847487 | 1.41421356237310 |

Table 1.1 Comparison of Methods for $f(x) = x^2 - 2$; $x_0 = 1$, $x_1 = 2$;
Solution: $\sqrt{2} \doteq 1.41421356237310$.

Source : Unknown