In[26]:=
```
ClearAll;
Romberg[a0_, b0_, n_] :=
 Module[{a = N[a0], b = N[b0], h, I},
  h = (b - a) / n;
  I = (h / 2) * (f[a] + f[b] + 2 * (Sum[f[a + h * k], {k, 1, n - 1}]));
  Return[I];
  ];
 f[x_] := 1 / (x ^ 3 + 1) ^ 0.5;
T1 = Romberg[0, 3, 1];
T2 = Romberg[0, 3, 2];
Print["T1 = ", T1];
Print["T2 = ", T2];
T = (4 * T2 - T1) / 3;
Print["Answer is = ", T];
```

```
T1 = 1.78347

T2 = 1.60887

Answer is = 1.55067
```

In[35]:=
```
 f[x_] := 2 ^ x;
T1 = Romberg[0, 4, 1];
T2 = Romberg[0, 4, 2];
Print["T1 = ", T1];
Print["T2 = ", T2];
T = (4 * T2 - T1) / 3;
Print["Answer is = ", T];
```

```
T1 = 34.

T2 = 25.

Answer is = 22.
```