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In[1]:= a = 1; b = 2; f[x_] := 1.0/x; ip = Integrate[f[x], {x, a, b}]
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Out[1]= 0.693147
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```
In[2]:= it[n_] := (h = (b - a) / n;
  s = 0;
  For[i = 0, i ≤ n, i++, s += f[a + i * h] * If[i == 0 || i == n, 1, 2]]];
  s * h / 2);
is[n_] := (h = (b - a) / n;
  s = 0;
  For[i = 0, i ≤ n, i++, s += f[a + i * h] * If[i == 0 || i == n, 1, 2 + 2 * Mod[i, 2]]]);
  s * h / 3);
```

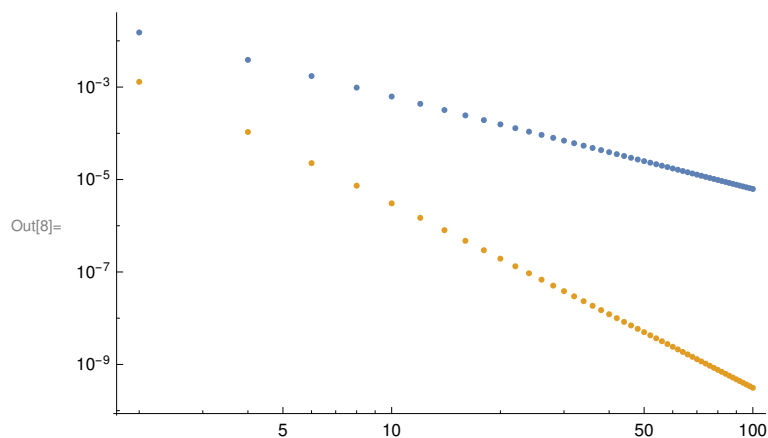
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In[4]:= it[4]
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Out[4]= 0.697024
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In[5]:= is[4]
```

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Out[5]= 0.693254
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In[6]:= tt = Table[{n, it[n] - ip}, {n, 2, 100, 2}];
ts = Table[{n, is[n] - ip}, {n, 2, 100, 2}];
ListLogLogPlot[{tt, ts}]
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In[9]:= Fit[Log[tt], {1, x}, x]
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Out[9]= -2.78449 - 1.99701 x
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In[10]:= Fit[Log[ts], {1, x}, x]
```

```
Out[10]= -3.64984 - 3.95393 x
```