

```
In[ ]:= s1 = Series[Series[ex+y, {x, 0, 2}], {y, 0, 2}]
```

$$\text{Out[]} = \left(1 + y + \frac{y^2}{2} + 0[y]^3\right) + \left(1 + y + \frac{y^2}{2} + 0[y]^3\right)x + \left(\frac{1}{2} + \frac{y}{2} + \frac{y^2}{4} + 0[y]^3\right)x^2 + 0[x]^3$$

```
In[ ]:= s1 // FullForm
```

```
Out[ ]//FullForm= SeriesData[x, 0, List[SeriesData[y, 0, List[1, 1, Rational[1, 2]], 0, 3, 1],
SeriesData[y, 0, List[1, 1, Rational[1, 2]], 0, 3, 1], SeriesData[y, 0,
List[Rational[1, 2], Rational[1, 2], Rational[1, 4]], 0, 3, 1]], 0, 3, 1]
```

```
In[ ]:= s2 = Series[ex+y, {x, 0, 2}, {y, 0, 2}]
```

$$\text{Out[]} = \left(1 + y + \frac{y^2}{2} + 0[y]^3\right) + \left(1 + y + \frac{y^2}{2} + 0[y]^3\right)x + \left(\frac{1}{2} + \frac{y}{2} + \frac{y^2}{4} + 0[y]^3\right)x^2 + 0[x]^3$$

```
In[ ]:= s2 // FullForm
```

```
Out[ ]//FullForm= SeriesData[x, 0, List[SeriesData[y, 0, List[1, 1, Rational[1, 2]], 0, 3, 1],
SeriesData[y, 0, List[1, 1, Rational[1, 2]], 0, 3, 1], SeriesData[y, 0,
List[Rational[1, 2], Rational[1, 2], Rational[1, 4]], 0, 3, 1]], 0, 3, 1]
```

```
In[ ]:= s1 === s2
```

```
Out[ ]:= True
```