Demo for mathematica
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Crated on Wed 29 Sep 2021 10:04:29 AM CDT

In[ ]:=
```
Integrate[x^2 + 1, {x, 1, y}]
```

Out[ ]=
$$-\frac{4}{3} + y + \frac{y^3}{3}$$

In[ ]:=
```
f[x_] := x^2 + Sin[x]
```

In[ ]:=
```
D[f[x], {x}]
```

Out[ ]=
```
2 x + Cos[x]
```

In[ ]:=
```
Sum[q^n, {n, 0, ∞}]
```

Out[ ]=
$$\frac{1}{1-q}$$