In[1]:=
```
3 + 5
```

Out[1]= 8

In[45]:=
```
one := (4 / 3) * Pi * (1 / x^6) * (x / Series[HankelH1[1, x], {x, ∞, 2}])^2
```

In[48]:=
```
one
```

Out[48]= $e^{-2 i x} \left(-\frac{2 i \pi^2}{3 x^3} - \frac{\pi^2}{2 x^4} + O\left[\frac{1}{x}\right]^5\right)$

In[46]:=
```
two := (4 * Pi / (5 * x^6)) * (x^2 / (x * Series[D[HankelH1[2, x], x], {x, ∞, 2}] +
         Series[HankelH1[2, x], {x, ∞, 2}]))^2
```

In[49]:=
```
two
```

Out[49]= $(4 \pi) \Big/ \left(5 x^2 \left(e^{i x} \left(-(-1)^{1/4} \sqrt{\frac{2}{\pi}} \sqrt{x} - \frac{19 (-1)^{3/4} \sqrt{\frac{1}{x}}}{4 \sqrt{2 \pi}} + O\left[\frac{1}{x}\right]^{3/2}\right) + e^{i x} \left((-1)^{3/4} \sqrt{\frac{2}{\pi}} \sqrt{\frac{1}{x}} - \frac{15 (-1)^{1/4} \left(\frac{1}{x}\right)^{3/2}}{4 \sqrt{2 \pi}} + O\left[\frac{1}{x}\right]^{5/2}\right)\right)^2\right)$

In[51]:=
```
one + two
```

Out[51]= $(4 \pi) \Big/ \left(5 x^2 \left(e^{i x} \left(-(-1)^{1/4} \sqrt{\frac{2}{\pi}} \sqrt{x} - \frac{19 (-1)^{3/4} \sqrt{\frac{1}{x}}}{4 \sqrt{2 \pi}} + O\left[\frac{1}{x}\right]^{3/2}\right) + e^{i x} \left((-1)^{3/4} \sqrt{\frac{2}{\pi}} \sqrt{\frac{1}{x}} - \frac{15 (-1)^{1/4} \left(\frac{1}{x}\right)^{3/2}}{4 \sqrt{2 \pi}} + O\left[\frac{1}{x}\right]^{5/2}\right)\right)^2\right) + e^{-2 i x} \left(-\frac{2 i \pi^2}{3 x^3} - \frac{\pi^2}{2 x^4} + O\left[\frac{1}{x}\right]^5\right)$

In[57]:=
```
Simplify[one + two]
```

Out[57]= $e^{-2 i x} \left(-\frac{16 i \pi^2}{15 x^3} - \frac{8 \pi^2}{5 x^4} + O\left[\frac{1}{x}\right]^5\right)$