Step-by-step integration

This is another nice example drawn from the Pythontex gallery, see https://github.com/gpoore/pythontex. It shows the step-by-step computations of a simple triple integral.

 ≈ 40.1235865133292

```
# Define limits of integration
x_max := 2: y_max := 3: z_max := 4:
ans := int(f(x,y,z), [x=x_min..x_max, y=y_min..y_max, z=z_min..z_max]):
                                                                               # mpl(lhs.01,ans)
f := (x,y,z) \rightarrow x*y + y*sin(z) + cos(x+y):
ans := ''int''(''int''(f(x,y,z), x=x_min..x_max), y=y_min..y_max), z=z_min..z_max):
                                                                                          # mpl(rhs.01,ans)
ans := ''int''(''int''(int(f(x,y,z), x=x_min..x_max), y=y_min..y_max), z=z_min..z_max):
                                                                                          # mpl(rhs.02,ans)
ans := ''int''(int(int(f(x,y,z), x=x_min..x_max), y=y_min..y_max), z=z_min..z_max):
                                                                                          # mpl(rhs.03,ans)
ans := int(int(int(f(x,y,z), x=x_min..x_max), y=y_min..y_max), z=z_min..z_max):
                                                                                          # mpl(rhs.04,ans)
# And now, a numerical approximation
ans := evalf[15](ans):
                                                                               # mpl(rhs.05,ans)
```

$$\int_0^4 \int_0^3 \int_0^2 f\left(x,y,z\right) \, \mathrm{d}x \, \mathrm{d}y \, \mathrm{d}z = \int_0^4 \int_0^3 \int_0^2 xy + y \sin\left(z\right) + \cos\left(x+y\right) \, \mathrm{d}x \, \mathrm{d}y \, \mathrm{d}z \\ = \int_0^4 \int_0^3 -\sin\left(y\right) + 2 \, y + 2 \, y \sin\left(z\right) + \sin\left(2+y\right) \, \mathrm{d}y \, \mathrm{d}z \\ = \int_0^4 8 + \cos\left(2\right) + 9 \, \sin\left(z\right) + \cos\left(3\right) - \cos\left(5\right) \, \mathrm{d}z \\ = \int_0^4 8 + \cos\left(3\right) - 4 \, \cos\left(5\right) + 4 \, \cos\left(2\right) - 9 \, \cos\left(4\right)$$
 \left\text{\left\text{begin{align*} \text{\text{\$\text{empl{rhs.01}}\text{\text{\$\tex{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$