

Demo of embedded symbolic math

HPL

May 14, 2015

$$\begin{aligned}\iint ax + y^2 \sin(y) \, dx \, dy &= \int \frac{ax^2}{2} + xy^2 \sin(y) \, dy \\ &= \frac{ay}{2} x^2 + x \left(-y^2 \cos(y) + 2y \sin(y) + 2 \cos(y) \right)\end{aligned}$$

The solution of $ax^2 + bx + c = 0$ is

$$x = \left[\frac{1}{2a} \left(-b + \sqrt{-4ac + b^2} \right), \quad -\frac{1}{2a} \left(b + \sqrt{-4ac + b^2} \right) \right]$$