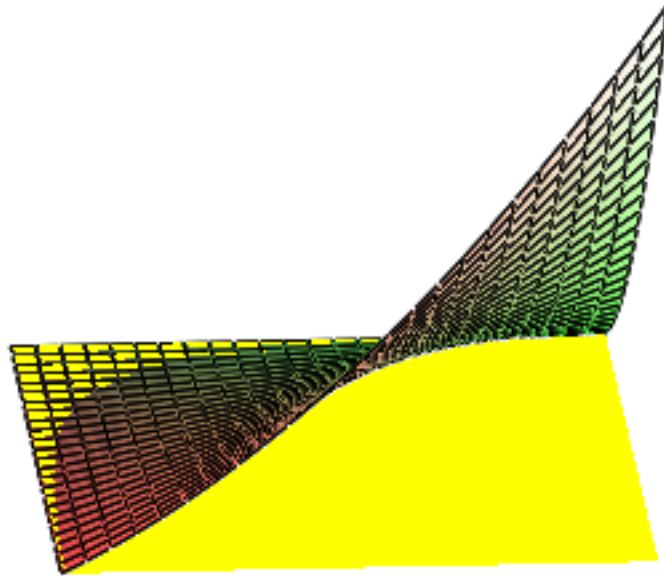


```

fubiniR := proc(f, a, b, c, d)
local a1, a2, a3 :
a1 := plot3d(f, x = a .. b, y = c .. d) :
a2 := plot3d([x, y, 0], x = a .. b, y = a .. b, color = yellow, style = patchnogrid) :
a3 := Integrate(Integrate(f, x = a .. b), y = c .. d) :
display(a1, a2)
end proc:
with(plots) :
fubiniR(x·y·(x + y), 0, 1, 0, 1)

```



```

fubiniC := proc(f, a, b, c, d)
Integrate(Integrate(f, x = a .. b), y = c .. d) = integrate(integrate(f, x = a .. b), y = c .. d)
end proc:
fubiniC(x·y·(x + y), 0, 1, 0, 1)

```

$$\int_0^1 \int_0^1 xy(x+y) \, dx \, dy = \frac{1}{3}$$

(1)