

1. Evaluate the iterated integral

Integrate x^2yz for z on $0..y$

$(x^2y^3)/2$

Integrate for y on $x..3x$

$10x^6$

Integrate for x on $0..1$

$10/7$

2. Evaluate the triple integral

Integrate for z on $2x..3x$

$(5x^2y(\ln x^5))/2$

Integrate for y on $0..x$

$(25x^4(\ln x^5)/4)$

Integrate for x on $0..1$

$-1/4$