

1 Double Integrals

$$\begin{aligned}&\int_0^3 \int_0^1 7xy\sqrt{x^2 + y^2} \, dy \, dx \\&\int_0^3 \int_0^1 7xy\sqrt{x^2 + y^2} dy dx \\&\int_0^{\pi/4} \int_0^6 x \sec^2(y) dA \\&\int_0^{\pi/4} \int_0^6 x \sec^2(y) dx dy \\&\int_0^{\pi/4} \int_0^6 x \sec^2(y) dA \\&\int \int_{y^2}^{y+12} y dx dy\end{aligned}$$