

1. $\int_0^a \int_0^{\sqrt{ay}} (xy) dx dy$
2. $\int_3^4 \int_1^2 (xy + e^y) dx dy$
3. $\int_0^1 \int_0^{1-x} (x + y) dy dx$
4. $\int_0^2 \int_{1+y^2}^5 y dx dy$
5. $\int_0^1 \int_0^{1-x} e^{-x+y} dy . dx.$
6. $\int_1^2 \int_{\frac{1}{2}+x}^1 (x + 12y) dy dx$
7. $\int_0^2 \int_x^x y 2x dy dx$
8. $\int_1^4 \int_0^{\sqrt{y}} e^{\frac{x}{\sqrt{y}}} dx dy$
9. $\int_0^4 \int_{y/2}^{\sqrt{y}} (4x + 2) dx dy$
10. $\int_0^5 \int_0^{(5-y)/2} (5 - 2x - y) dx dy$
11. $\int_0^a \int_{\frac{x}{a}}^{\sqrt{\frac{x}{a}}} (x^2 + y^2) dx dy$
12. $\int_0^1 \int_x^{2-x} \frac{x}{y} dy dx$
13. $\int_1^2 \int_1^{x^2} \frac{x^2}{y} dy dx$
14. $\int_0^2 \int_{\frac{x^2}{2}}^{4-x} xy dy dx$
15. $\int_1^2 \int_{-2/y}^2 \frac{x}{y} dx dy$