

H.W.

① $\int_0^3 \int_1^{\sqrt{4-y}} (x+y) dx dy$ Evaluate by changing the order of integration (COI). Ans. $\frac{241}{60}$

② $\int_0^a \int_{\frac{x^2}{a}}^{2a-x} xy dy dx$ Evaluate by COI. Ans. $\frac{3a^4}{8}$

③ $\int_0^1 \int_0^{2x} x dy dx$ Evaluate by COI. Ans. $\frac{2}{3}$