

Quiz 5

Name: _____ / Id: _____ / Section _____

1) Write $\int_{-2-\sqrt{4-x^2}}^2 \int_{\sqrt{x^2+y^2}}^2 \int_{-\sqrt{4-x^2}}^2 (x^2 + y^2) dz dy dx$ in cylindrical coordinates

2) Evaluate $\int_{-1-\sqrt{1-x^2}}^1 \int_{-\sqrt{1-x^2}}^{\sqrt{1-x^2}} \int_0^{\sqrt{1-x^2-y^2}} \sqrt{x^2 + y^2 + z^2} dz dy dx$