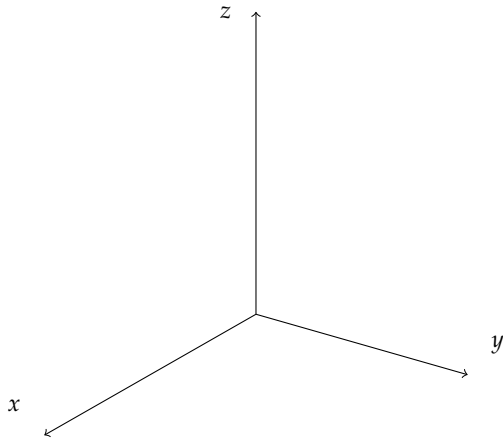


1. Let R be the three dimensional region bounded by the planes $x = 0$, $y = 0$, $z = 0$, and $x + 2y + 4z = 4$.

(a) Give a (rough) sketch of the region, and plot three points.



(b) Set up (but don't solve) an integral giving the volume of the region...

(i) In the order $dx dy dz$

(ii) In the order $dz dy dx$

(c) Solve one of the integrals above to find the volume of R .