

Quiz 9 – MATH 3503 Fall 2022

Set up **but do not evaluate** the integral. Draw the region and the shadow region for full credit.

1.  $\iiint_E yx dV$  where  $E$  is the region bounded by the planes  $x = 0$ ,  $y = 0$ ,  $z = 0$ , and  $3x + 2y + 6z = 6$ .

2.  $\iiint_E y^2 + z^2 dV$  where  $E$  is the region bounded by the paraboloid  $x = y^2 + z^2$  and the plane  $x = 2$ , as pictured:

