

NAME: \_\_\_\_\_

### Triple Integral Quiz

Let  $E$  be the solid bounded between the planes  $x = 1$ ,  $y = 0$  and  $2x + y = 6$ , bounded below by  $z = 0$  and bounded above by  $z = \sqrt{x}$ .

Set up an iterated integral for  $\iiint_E f(x, y, z) dV$  in three different ways.