

# Triple Integrals



## Question

Consider the tetrahedron  $T$  in the 1st octant bound by the coordinate planes and the plane  $2x + 6y + 3z = 6$ . Which of the following triple integrals does NOT represent the volume of  $T$ ?

- A.  $\int_0^1 \int_0^{3-3y} \int_0^{2-\frac{2}{3}x-2y} dz dx dy$
- B.  $\int_0^1 \int_0^{2-2y} \int_0^{3-3y-\frac{3}{2}z} dx dz dy$
- C.  $\int_0^2 \int_0^{3-\frac{3}{2}z} \int_0^{1-\frac{1}{3}x-\frac{1}{2}z} dy dx dz$
- D.  $\int_0^2 \int_0^{2-2y} \int_0^{3-3y-\frac{3}{2}z} dx dy dz$

