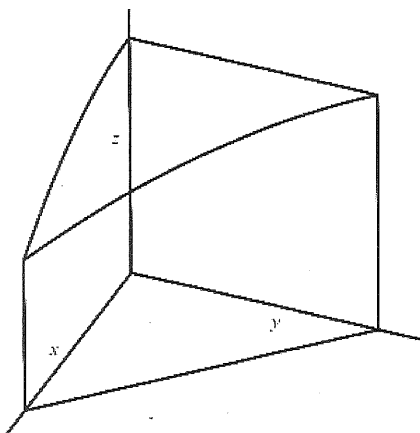
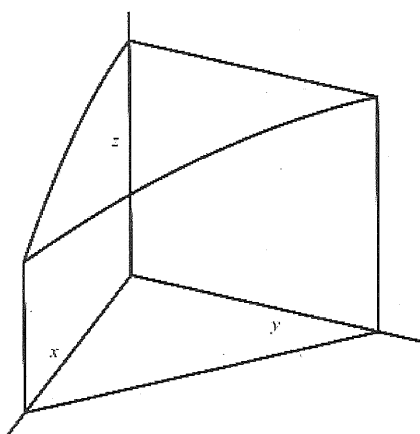


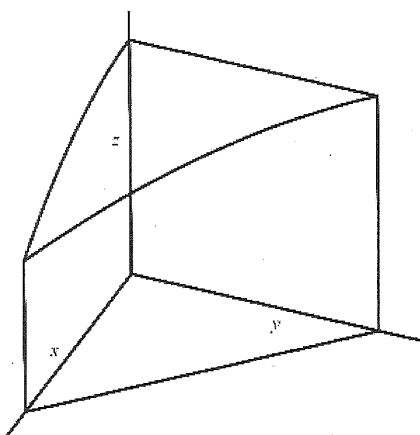
List the six possible orders of integration for the triple integral of  $f(x, y, z) = 2x + y - 3z$  over the solid region  $T$  in the first octant bounded by the parabolic cylinder of  $z = 25 - x^2$  and the plane  $y = 3 - x$ .



$$\int \int \int (2x + y - 3z) dz dy dx$$

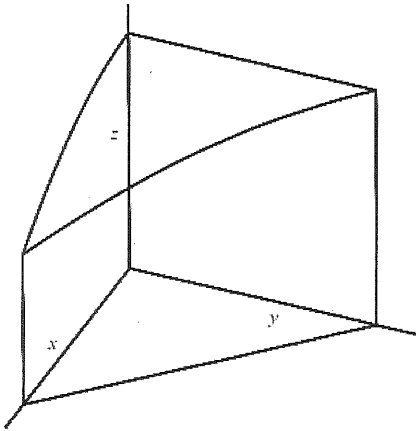


$$\int \int \int (2x + y - 3z) dy dz dx$$

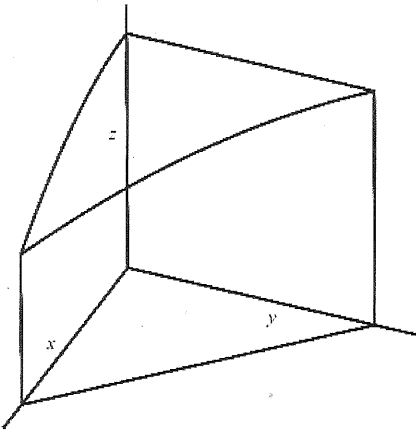


$$\int \int \int (2x + y - 3z) dz dx dy$$

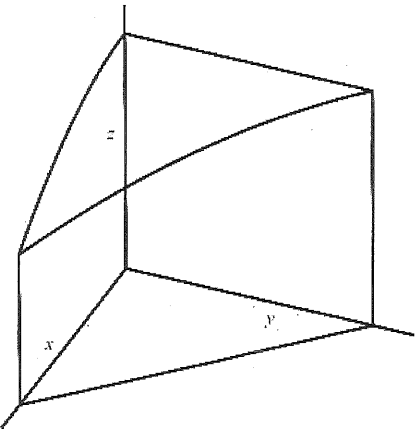
List the six possible orders of integration for the triple integral of  $f(x, y, z) = 2x + y - 3z$  over the solid region  $T$  in the first octant bounded by the parabolic cylinder of  $z = 25 - x^2$  and the plane  $y = 3 - x$ .



$$\int \int \int (2x + y - 3z) dx dz dy$$



$$\int \int \int (2x + y - 3z) dy dx dz$$



$$\int \int \int (2x + y - 3z) dx dy dz$$