

Exercise

3D Composite Transformation

1) The pyramid defined by the coordinates $A(0, 0, 0)$, $B(1, 0, 0)$, $C(0, 1, 0)$, and $D(0, 0, 1)$ is rotated 45° about the line L that has the direction $V = J + K$ and passing through point $C(0, 1, 0)$ (See Figure). Find the coordinates of the rotated figure.