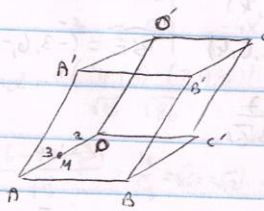
4.9
5

(10)



$C = O + \vec{OC} = (2,3,0)$

$C' = O + \vec{OC'} = (2,3,6)$

$A = O + \vec{OA} = (5,3,0)$

$A' = A + \vec{CC'} = (5,3,6)$

$M = (2,1.2,0)$ $\quad \vec{A'C} = (-3,0,6) = (1,0,2)$

$X = (2,1.2,0) + t(1,0,2)$ הוא $\vec{A'C}$ הישר הניצב ל

$A'B'C'$ מישור

$$\begin{vmatrix} x & y & z-6 \\ 2 & 3 & 0 \\ 5 & 3 & 0 \end{vmatrix} = -9(z-6) = 0$$

$$0 = 9 - z$$

$t = 3 \leftarrow 0 = -6 + 2t$ נמצא ע"י הצבה במשוואה

$N = (5,1.2,6)$

(7) $\vec{OM} = (2,1.2,0)$, $\vec{ON} = (5,1.2,6)$

$$S_{OMC} = \frac{1}{2}\left|\vec{OM} \times \vec{ON}\right| = \frac{1}{2}\left\| \begin{matrix} i & j & k \\ 2 & 1.2 & 0 \\ 5 & 1.2 & 6 \end{matrix} \right\| = \frac{1}{2}\sqrt{7.2^2 + 12^2 + 3.6^2} = \sqrt{57.2} = 3\sqrt{5.8}$$