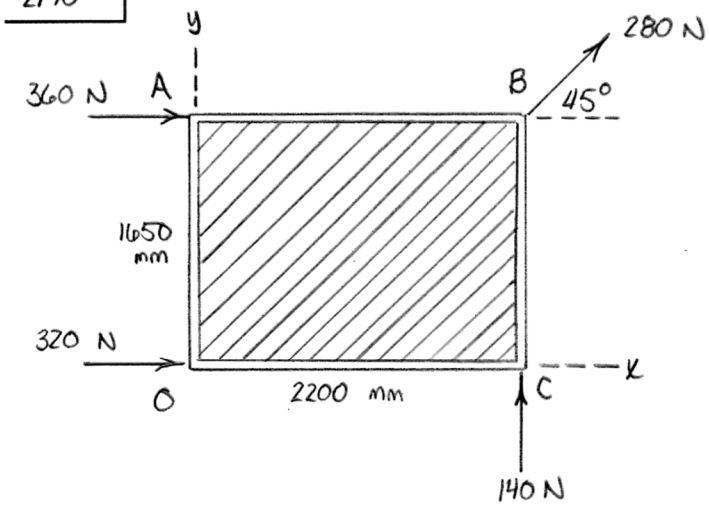
2/90



$\underline{R} = (360 + 320 + 280\cos 45°)\,\underline{i} + (140 + 280\sin 45°)\,\underline{j}$

$\underline{R} = 878\,\underline{i} + 338\,\underline{j}$ N

$M_O = 2.2(140 + 280\sin 45°) - 1.650(360 + 280\cos 45°) = -177.1$ N·m

$M_O = 177.1$ N·m CW

For CW moment about O, positive R_x is placed above O.

$R_x y = M_O \rightarrow 878y = 177.1 \rightarrow$ $y = 0.202$ m or 202 mm above O

For CW moment about O, positive R_y is placed left of O.

$R_y x = M_O \rightarrow 338x = 177.1 \rightarrow$ $x = 0.524$ m or 524 mm left of O