

CC Correction - MR1

	$0,25 \times 4$
$\begin{cases} \sum \vec{F} = \vec{0} \\ \sum \vec{M}_A(\vec{F}) = \vec{0} \end{cases}$	$0,25$ $0,25$
$\begin{cases} \vec{Q} + \vec{T} + \vec{R}_A = \vec{0} \\ \vec{M}_A(\vec{Q}) + \vec{M}_A(\vec{T}) + \vec{M}_A(\vec{R}_A) = \vec{0} \end{cases}$	$0,5$ $0,5$
$\vec{M}_A(\vec{R}_A) = \vec{0}$	$0,5$
$\vec{M}_A(\vec{Q}) = \vec{AD} \times \vec{Q} = \begin{pmatrix} -260 \\ 91 \\ 0 \end{pmatrix} \times \begin{pmatrix} 0 \\ -Q \\ 0 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \\ 260Q \end{pmatrix}$	01
$\vec{M}_A(\vec{T}) = \vec{AB} \times \vec{T} = \begin{pmatrix} -60 \\ 91 \\ 0 \end{pmatrix} \times \begin{pmatrix} T \cos 37 \\ T \sin 37 \\ 0 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \\ -60T \sin 37 - 91T \cos 37 \end{pmatrix}$	01
$\begin{cases} T \cos 37 - R_{Ax} = 0 \\ T \sin 37 - R_{Ay} - Q = 0 \\ -T(60 \sin 37 + 91 \cos 37) + 260Q = 0 \end{cases}$	$0,5 \times 3$
$R_{Ax} = 1297,9N$ $R_{Ay} = 298,1N$ $T = 1625,2N$	$0,5 \times 3$
$R_A = \sqrt{R_{Ax}^2 + R_{Ay}^2}$ $R_A = 1330,8N$	$0,5 \times 2$
$\theta = \tan^{-1} \left(\frac{298,1}{1297,9} \right) = 12.9^\circ$ counterclockwise from the negative x-axis	$0,5 \times 2$