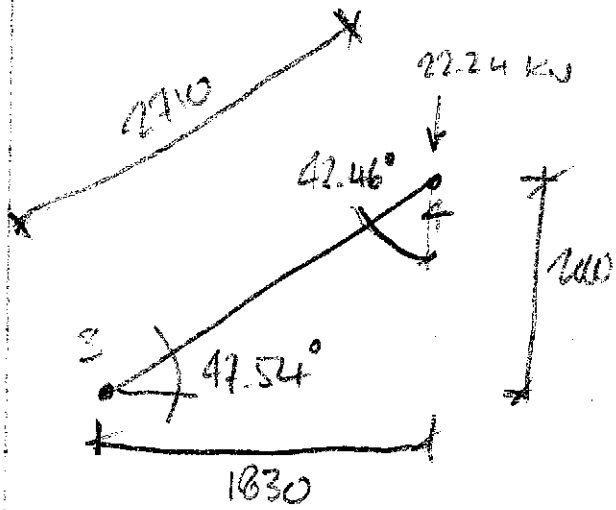
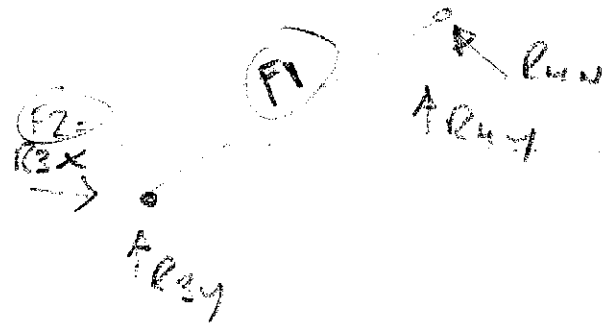
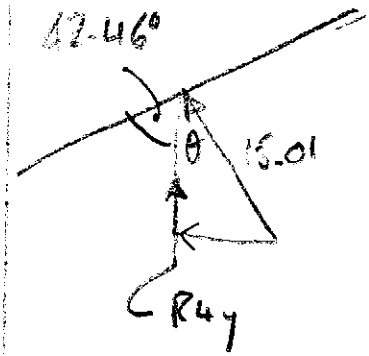
EXAMPLE 1
1830 x 2000





$22.24\,kN \times 1.83 = R_{4N} \times 2.71 \;\therefore\; R_{4N} = 15.01\,kN.$



$\theta = 90 - 42.46° = 47.54°$

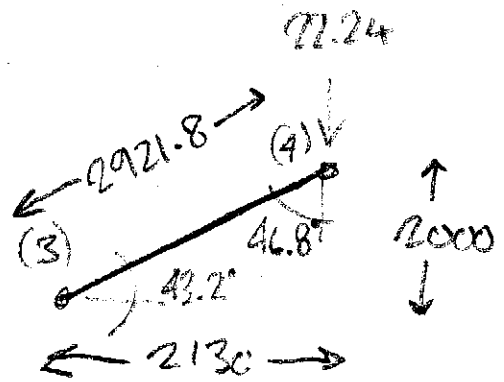
$R_{4y} = 15.01 \times \cos 47.54° = 10.13\,kN$ (ok)

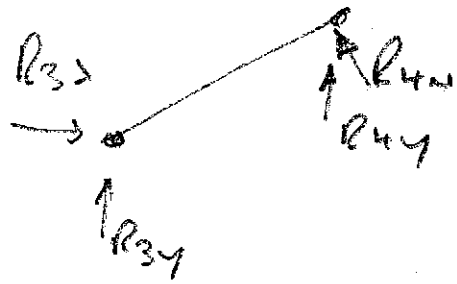
$R_{3y} = 22.24 - 10.13\,kN = 12.11\,kN$ (ok)

$F_1 = 22.24 \times \cos 42.46 = 16.4\,kN$ (ok)

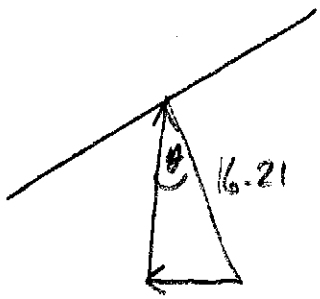
$F_2 = 16.4 \times \cos 47.54 = 11.1\,kN$ (ok)

EXAMPLE 2
2130 × 2000





$22.24 \times 2.13 = R_{4N} \times 2.922$ $\quad R_{4N} = 16.21$ kN



$\theta = 90 - 46.8 = 43.2°$

$R_{4y} = 16.21 \times \cos 43.2 = 11.82$ kN

Software = 11.12 kN

$R_{3y} = 22.24 - 11.82 = 10.42$ kN

Software = 11.12 kN

$F2 = 22.24 \times \cos 46.8 = 15.2$ kN. Software = 16.2 kN

$F3 = 15.2 \times \cos 43.2 = 11.1$ kN Software = 11.84 kN