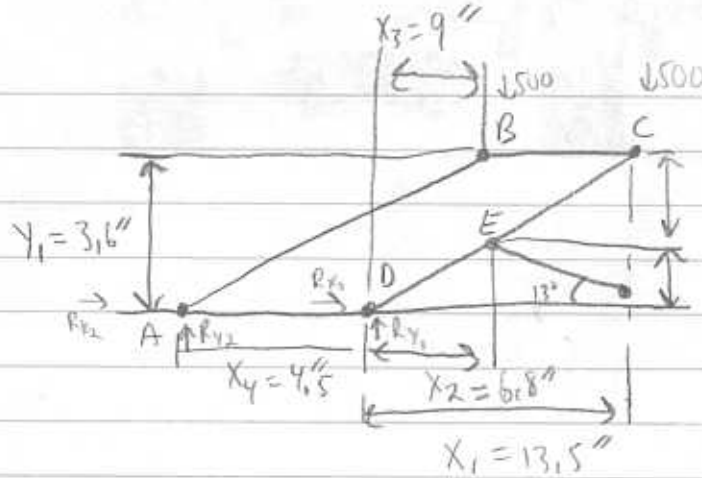

$F_y = F \sin\theta$

$F_x = F \cos\theta$

$F \sin 13° = 0,22$

$F \cos 13° = 0,97$

$\Sigma F_y = 0 \quad -500 - 500 + R_{y1} + R_{y2} + F \sin 13° = 0$

$R_{y1} + R_{y2} + 0,225 F = 1000$

$\Sigma F_x = 0 \quad -F \cos 13° + R_{x2} + R_{x1} = 0$

$-0,974 F + R_{x2} + R_{x1} = 0$

$\Sigma M_A = 0 \quad R_{y1} \cdot X_4 + F_y \cdot (X_4 + X_2) + F_x (Y_2) - 500(X_4 + X_1) - 500(X_4 + X_3) =$

$4,5 R_{y1} + 11,3 F \sin 13° + 1,8 F \cos 13° - 500 \cdot 18 - 500 \cdot (-4,5) = 0$

$4,5 R_{y1} + 2,5425 F + 1,7532 F = 6750$

$4,5 R_{y1} + 4,2957 F = 6750$

$\Sigma M_B = 0 \quad -500 \cdot X_4 + R_{x2} \cdot Y_1 - R_{y2} \cdot X_4 + R_{x1} \cdot Y_1 + F_y \cdot (X_3 - X_2) - F_x (Y_1 - Y_2) + R_{y1}$

$-500 \cdot (4,5) + 3,6 R_{x2} - 4,5 R_{y2} + 3,6 R_{x1} + 0,225 F (-2,2) - 0,974 (1,$
$- 9 R_{y1} = 0$

$3,6 R_{x2} - 4,5 R_{y2} + 0,495 F + 1,7532 F - 9 R_{y1} = 2250$

$3,6 R_{x2} - 4,5 R_{y2} - 9 R_{y1} + 2,2482 F = 2250$

$\Sigma M_O = 0 \quad -R_{y2} \cdot X_4 - 500 \cdot X_1 + F_x \cdot Y_2 + F_y \cdot X_2 - 500 \cdot X_3 = 0$

$-4,5 R_{y2} - 500 \cdot 13,5 + 1,8 F_x + 6,8 F_y - 500 (-9) = 0$

$-4,5 R_{y2} + 1,8 F \cos 13° + 6,8 F \sin 13° = 2250$

$-4,5 R_{y2} + 1,8 \cdot 225 F + 6,8 \cdot 974 F = 2250$

$-4,5 R_{y2} + 7,0282 F = 21250$