C3 | 3.52

MAG	∠	X	Y
P1	225	$-P1(0.707)$	$-P1(0.707)$
30	59.04	$+15.433$	$+25.726$
P2	-36.87	$P2(.8)$	$-P2(0.60)$

$$-0.707\,P1 + 0.8\,P2 = -15.433$$

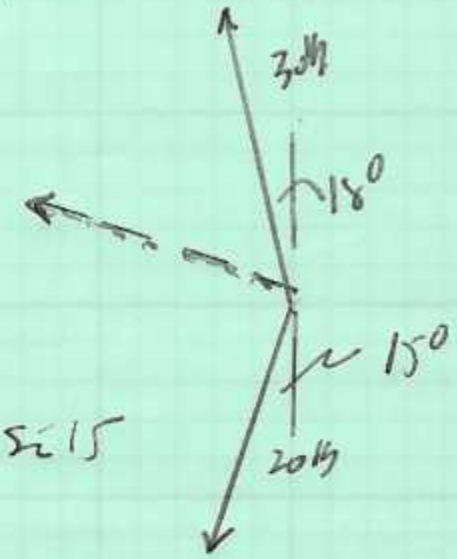
$$+0.707\,P1 + +0.6\,P2 = +25.726$$

$$1.4\,P2 = 10.29$$

$$P2 = \underline{7.35\ kN}$$

$$P1 = \underline{30.15\ kN}$$

3-54 "Pool"



X

$-30 \sin 18 + -20 \sin 15$

$= -14.45$

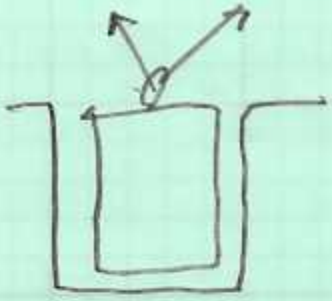
Y

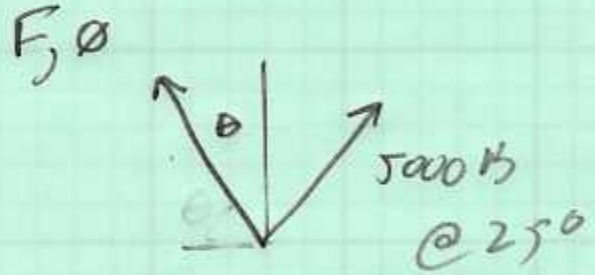
$30 \cos 18 - 20 \cos 15$

$= 5.61$

MAG 16.8 lb ∠ 149.21°

C3 — 3.60





$\theta = 180^\circ$

$F \sin 18 = 5000 \cos 25$

$F = 14664.37$ lb

$R = 16060$ lb vert