) Lab1 Homework: Solutions Physics 2 90 Λ , 190 tx = 345qx Cos550 Fx = 198q Fy=283g/=345g 2312+ 1232 grang F = 262g 23/2 $\theta = Tan \left(\frac{F_y}{F_x} \right) = Tan \left(\frac{-231}{123} \right)$ 0 = -62° down in 4th goadrant and 180°= 118°, which looks right.

1200 probably have somewhere. F3 answer down so F, + F2 + F3=0 when table is balanced. FITE-Fix to the we want. - Fix found. F1x = 432, cos35° F1x = 432, SNB5° F2x = 2989 cos 120° F2y = 2989 sin 1200 Should be neg. See figure Fig = 2488 Fix = 3549 1 tzy= 2588 F2x= -1499 -F3x=5069 $y_{-F_{3x}} = 205g$ F3= \((-205)^2 + (-506)^2 \q = 5469 \) = magnitude. $\theta_3 = Tan' \left(\frac{F_{2y}}{F_{3x}}\right) = Tan' \left(\frac{-506}{-205} \text{ g}\right) = 68^\circ$ but add 180° since F3x <0. D= 248, or -112°.