

Philadelphia University

Faculty of Engineering

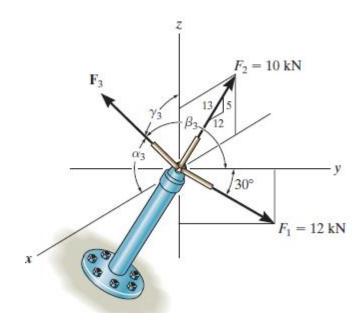
Mech. Engineering Department

Statics(620211)

Quiz:1-D .1st sem. 2014/15

Dr.Nabil musa

Express the forces $\mathbf{F_1}$ and $\mathbf{F_2}$ in cartesian vector form.



$$F_1 = 12 \cos 30^\circ j - 12 \sin 30^\circ k = 10.392 j - 6 k$$

$$F_2 = -\frac{12}{13}(10)i + \frac{5}{13}(10)k = -9.231i + 3.846k$$