

**ME 205 – STATICS – FALL 2014**  
**SECTION 04**

**HOMEWORK #1**

**Prepared by:** Mumin Özsipahi  
**Room:** C-206 **Phone:** 210 7232  
**E-mail:** [ozsipahi@metu.edu.tr](mailto:ozsipahi@metu.edu.tr)

**Date:** 08.10.2014  
**Due:** 15.10.2014 until 16:00  
**Room:** C-206

**Problem**

In the figure below,

- Find the unit vectors along the given forces  $F_1$ ,  $F_2$  and  $F_3$ .
- Determine the magnitude and the unit vector of the resultant force,  $F_R$  for the given three forces.
- Find the angle between the forces  $F_3$  and  $F_R$ .

