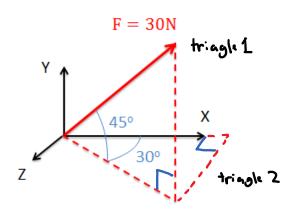
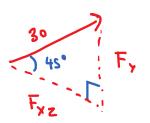
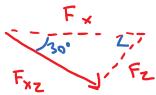
Problem 3

The force shown below is given in magnitude and direction form. Redraw the diagram with the force vector given in component form.





triagle 2



$$F_{x} = F_{xz} \cos(30) = (30\cos(45)) \cos(30)$$

$$F_{x} = 18.4 N$$

$$F_{z} = F_{xz} \sin(30) = (30\cos(45)) \sin(30)$$

$$F_{z} = 10.6 N$$

$$F_{z} = 18.4 , 21.2 , 10.6] N$$