

Vector homework #1

Draw a point diagram, find the "happy angle" (angle between the components) and then draw the vector diagram to scale and find the resultant (that's magnitude and angle)

1. $F_1 = 56 \text{ N at } 305^\circ$
 $F_2 = 68 \text{ N at } 170^\circ$

2. $F_1 = 55 \text{ N at } 15^\circ$
 $F_2 = 44 \text{ N at } 260^\circ$

3. $F_1 = 75 \text{ N at } 15^\circ$
 $F_2 = 60. \text{ N at } 185^\circ$

4. $F_1 = 55 \text{ N at } 90.^\circ$
 $F_2 = 65 \text{ N at } 180^\circ$