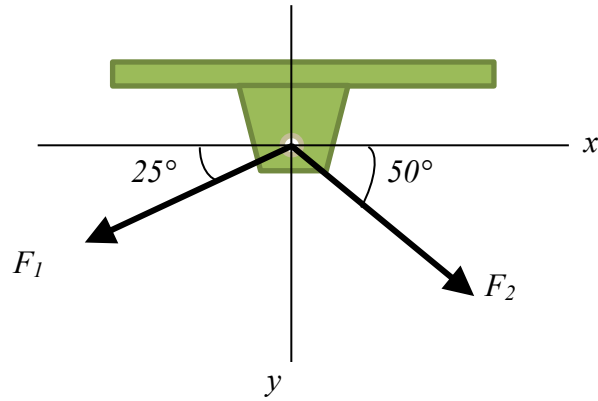


2. Determine the magnitude of the resultant force in both x and y directions if $F_1 \sim N(650,15^2)$ N and $F_2 \sim N(800,18^2)$ N.



Solution: $F_x \sim N(-74.87,17.85^2)$ N and $F_y \sim N(887.54,15.18^2)$ N.