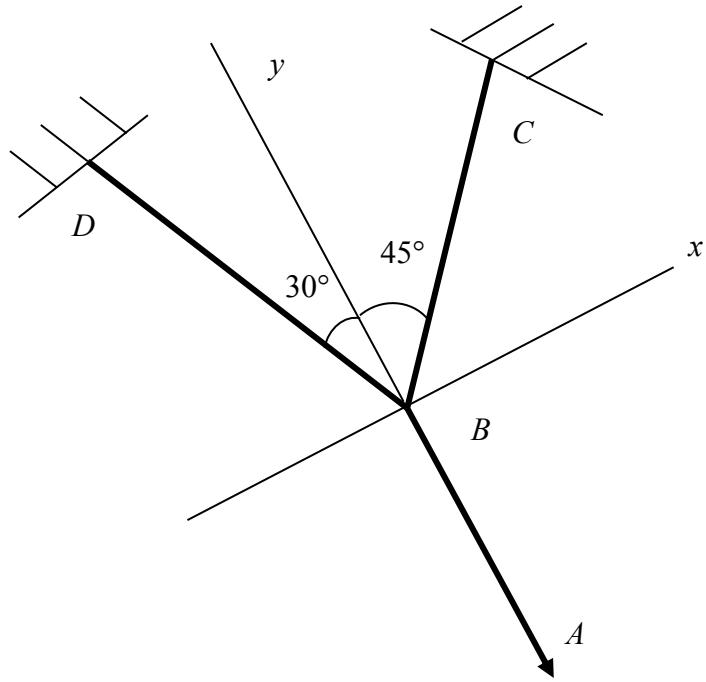


4. If $F_{AB} \sim N(450, 8^2)$ N, determine the distributions of F_{BC} and F_{BD} .



Solution: The distributions are $F_{BD} \sim N(329.42, 5.86^2)$ N and $F_{BC} \sim N(232.94, 4.14^2)$ N. **ANS.**