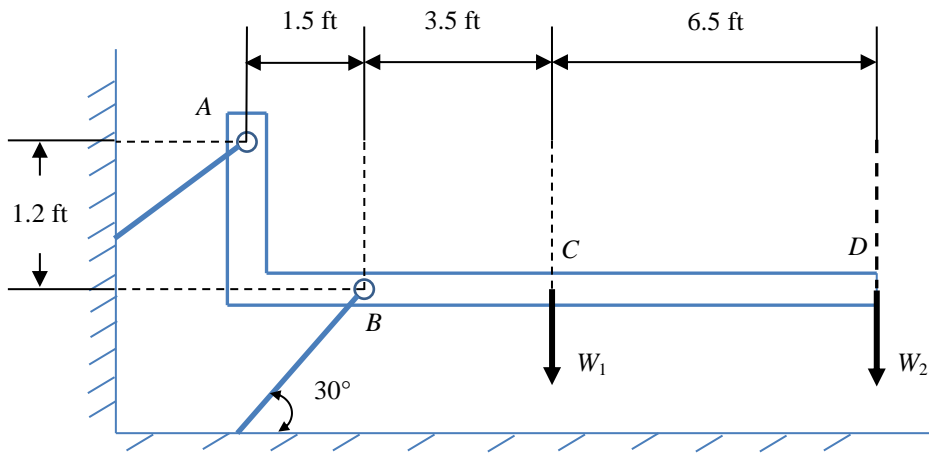


4. Component $ABCD$ supports two independent loads $W_1 \sim N(200, 4^2)$ lb and $W_2 \sim N(700, 8^2)$ lb. Determine the distributions of x and y components of the force acting on pin A .



Answer: $A_x \sim N(4127.1, 42.9^2)$ lb and $A_y \sim N(1482.8, 26.4^2)$ lb.