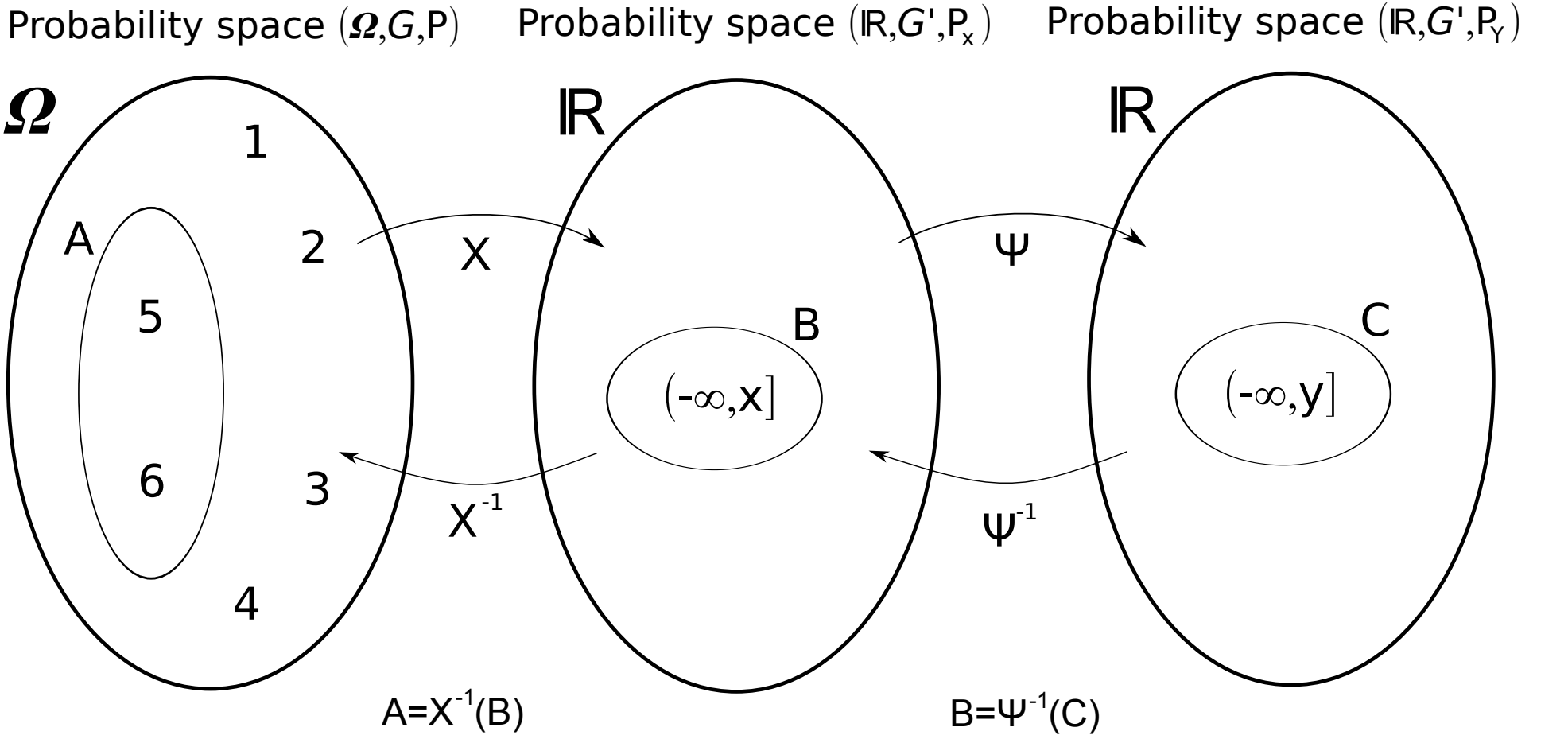

Induced probability $P_Y(C)=P_x(B)=P(A)$