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3.1) and Theorem:
$$\sum_{x \in S_{x}} \sum_{y \in S_{y}} P_{x,y}(x,y) = 1$$
abs $|x-y| = \begin{cases} x-y \ ; & x > y \end{cases}$
 $|x-y| = \begin{cases} x-y \ ; & x > y \end{cases}$

$$+\left\{ (-3+4)+(-3+3)-(-3+2)-(-3+1)-(-3-0)-(-3-1)-(-3-2)-(-3-3)-(-3-4) \right\}$$

$$+ \left\{ (0+4) + (0+3) + (0+2) + (0+1) + (0+0) - (0-1) - (0-2) - (0-3) - (0-4) + (0+4) + (0+3) + (0+2) + (0+1) + (0+1) + (0+1) - (0-2) - (0-3) - (0-4) + (0+4) + (0+3) + (0+2) + (0+1) +$$

$$+ \left(\frac{1+4}{1+4} + \frac{1+5}{1+5} + \frac{1+2}{1+4} + \frac{1+1}{1+4} + \frac{1+1}{1+$$

$$\begin{array}{c} + \left(2+4 \right) + \left(2+3 \right) + \left(2+2 \right) + \left(3+1 \right) + \left(3-2 \right) + \left(3-2 \right) + \left(3-3 \right) + \left(3-4 \right) \left(3+4 \right) + \left(3+3 \right) + \left(3+4 \right)$$

$$+ \begin{cases} (3+4) + (3+3) + (3+2) + (3+1) + (3-1) +$$

$$i.k = \frac{1}{240}$$

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3.2) Marginal PMF $P_X(x)$ an Definition: $P_X(x) = \sum_{y} P_{x,y}(x,y)$

7:16
$$P_{\chi}(x) = \sum_{y=-4}^{4} k|x-y|$$

$$= \frac{1}{240} \sum_{y=-4}^{4} |x-y|$$

$$P_{X,Y}(X,-4) = \frac{1}{240} | X+4 |$$

$$P_{X,Y}(X_1-3) = \frac{1}{240} | X+3 |$$

$$P_{X,Y}(X_1-2) = \frac{1}{240} | X+2 |$$

$$P_{X_1Y}(X_1-1) = \frac{1}{240} |X+1|$$

$$P_{X|Y}(X_1 \alpha) = \frac{1}{240} |X|$$

$$P_{X,Y}(X,1) = \frac{1}{240} | X-1 |$$

$$P_{X,Y}(X,2) = \frac{1}{240} | X-2 |$$

$$P_{X,Y}(X,3) = \frac{1}{240} | X-3 |$$

$$P_{X,Y}(X,4) = \frac{1}{240} | X-4 |$$

Town $x \in \{-4, -3, -2, ..., 4\}$

3.3) 1) 4) 41 PMF PW(W) 40787711/5 & W TANTO W = X+Y
$$|X-y| = \begin{cases} x-y & j & x/y \\ -(x-y) & j & x < y \end{cases}$$

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