Muhat Masslende 421428 Zelitedam se da k# Z P(X= k)=0 1) Tale X- est unemmes dyslineting bo: $\sum_{k\in\mathbb{Z}}P(x-k)=\sum_{k\in\mathbb{Z}}P(x-k)=P(x-k)+\sum_{k=1}^{\infty}P(x-k)+\sum_{k=1}^{\infty}P(x-k)=$ $=\frac{1}{2} + 2 \sum_{k=1}^{\infty} \frac{1}{5k \cdot (k+1)} = \frac{1}{2} + \frac{1}{2} \cdot \lim_{k \to \infty} \frac{1}{k \cdot (k+1)} = \frac{1}{2} \cdot (1 + \frac{1}{2} \cdot 1) = 1 \cdot ole$ $\lim_{n\to\infty} \frac{1}{k!n!} = \lim_{n\to\infty} \frac{1}{k!n!} = \lim_{n\to\infty} \frac{1}{k!n!} = \lim_{n\to\infty} \left(\frac{1}{1} - \frac{1}{n!n!}\right) = 1 - \frac{1}{1+\infty} = 1 - 0 = 1$ 60 1 - 1 = k+1-k - 1 k(k+1) $EX = \sum_{k \in R} x P(X = k) = \sum_{k \in Z} k P(X = k) = \frac{1}{z} + \sum_{k=1}^{\infty} k \cdot \frac{1}{(k+1)k \cdot 4} + \sum_{k=1}^{\infty} -k \cdot \frac{1}{4k(k+1)} =$

 $= \frac{1}{2} + \infty - \infty = \frac{2}{6} \cdot \frac{2}{16}$ columble rie idnieje, 60 la suma me jest absolutive réine.

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Lco.

$$\left(\frac{1}{|X|} - \frac{1}{|X|+1}\right) + \left(\frac{1}{|X|-1} - \frac{1}{|X|}\right) + \left(\frac{1}{|X|-2} - \frac{1}{|X|+1}\right) + \cdots + \frac{1}{|X|} + \frac{1}{|X|} - \frac{1}{|X|+1}$$

and he some none
$$\frac{1}{x=x}$$
 that $\frac{1}{|x|(|x|+1)} = \frac{1}{|x|} - \frac{1}{|x|+1}$

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

zem

$$\frac{3}{4} + \frac{1}{4} \cdot \left(1 - \frac{1}{k+1}\right) = 1 - \frac{1}{4(k+1)}$$

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