$$\frac{1}{6} + \frac{1}{30}, \quad -8 \le n < -3 \quad (0, \frac{1}{10})$$

$$\frac{1}{6} + \frac{1}{30}, \quad -5 \le n < -2 \quad (\frac{1}{6}, \frac{1}{15})$$

$$\frac{1}{6} + \frac{1}{30}, \quad -5 \le n < -2 \quad (\frac{1}{6}, \frac{1}{15})$$

$$\frac{1}{6} + \frac{1}{30}, \quad -2 \le n < 2 \quad (\frac{13}{15}, \frac{13}{30})$$

$$\frac{1}{6} + \frac{1}{30}, \quad 5 \le n < 8 \quad (\frac{13}{15}, \frac{11}{15})$$

$$\frac{1}{6} + \frac{1}{30}, \quad 5 \le n < 8 \quad (\frac{13}{15}, \frac{11}{15})$$

$$\frac{1}{6} + \frac{1}{30}, \quad 5 \le n < 8 \quad (\frac{13}{15}, \frac{11}{15})$$

$$\frac{1}{6} + \frac{1}{30}, \quad 5 \le n < 8 \quad (\frac{13}{15}, \frac{11}{15})$$

$$\frac{1}{6} + \frac{1}{30}, \quad 5 \le n < 8 \quad (\frac{13}{15}, \frac{11}{15})$$

e)
$$E[X] = \int_{3}^{-5} x \frac{1}{30} dx + \int_{-5}^{5} x \frac{1}{6} \chi(x-5)^{\frac{1}{4}} \int_{3}^{-2} x \frac{1}{30} dx$$

+ $\int_{2}^{2} x \frac{1}{15} dx + \int_{3}^{5} x \frac{1}{30} dx + \int_{5}^{1} \frac{1}{30} \chi(x+5)$

+ $\int_{3}^{8} x \frac{1}{30} dx$
 $E[X] = \frac{1}{30} \left[\frac{x^{2}}{2} \right]_{+(-5)}^{+(-5)} \frac{1}{6} + \frac{1}{30} \left[\frac{x^{2}}{2} \right]_{++15}^{+2} \left[\frac{x^{2}}{2} \right]_{-5}^{+5}$

+ $\frac{1}{30} \left[\frac{x^{2}}{2} \right]_{+5}^{+5} \cdot \frac{1}{6} + \frac{1}{30} \left[\frac{x^{2}}{2} \right]_{-5}^{+5}$
 $E[x] = \left(-\frac{13}{20} \right) + \left(-\frac{5}{6} \right) + \left(-\frac{7}{20} \right) + \frac{5}{6} + \frac{7}{20} + \frac{13}{20} \frac{x}{2}$
 $E[x] = \left(-\frac{13}{20} \right) + \left(-\frac{5}{6} \right) + \left(-\frac{7}{20} \right) + \frac{5}{6} + \frac{7}{20} + \frac{13}{20} \frac{x}{2}$