Practice Test

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let
$$X = R.V.$$
 for time of train depart $f(x) = \begin{cases} \frac{1}{20}, & \text{if } |0| \le x \le 11:30 \\ 0, & \text{otherwise} \end{cases}$

$$E[x] = \int_{x} f(x) dx$$

$$||\cdot||^{1/2}$$

$$= \int_{X} Q \, dx + \int_{X} 4(x) dx + Q$$

$$\frac{1}{10} \times \frac{1}{10} = \frac{400}{40} - \frac{100}{40} = \frac{800}{40} - 20 \, \text{m/n}$$