to b then

If X_{n-13} is converging $P(|X_{n-13} - b| > \varepsilon) = 0$

~~$P(X_{n-13}$~~

We know that

$$P(X < \varepsilon) \leq \frac{E(X)}{\varepsilon}$$

~~$P(b$~~

$$X = b - X_{n-13}$$

$$P(b - X_{n-13} < \varepsilon) \leq \frac{E(b - X_{n-13})}{\varepsilon}$$

$$P(X_{n-13} - b < \varepsilon) \leq \frac{E(b - X_{n-13})}{\varepsilon}$$

Since b is constant

$$E(X) = b - E(X_{n-13})$$

$$P(X_{n-13} - b \geq \varepsilon) \leq \frac{b - E(X_{n-13})}{\varepsilon}$$

$$E(X_{n-13}) = \int_{-\infty}^{\infty} x\, f(x)\, dx$$