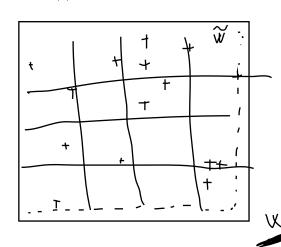
5. Consider the point pattern $\{x_1,\ldots,x_n\}$ observed in a compact observation window $W\subset\mathbb{R}^2$ and assume it is a realization of a stationary point process. How to estimate its intensity? How to estimate the values F(r) and G(r), r > 0? F(r) = 1 F(r) = 1 F(r) = 1



$$\frac{1}{m} \sum_{\lambda=1}^{m} \Phi(w_{\lambda}) = \frac{1}{m} \overline{\Phi}(\bigcup_{\lambda=1}^{m} W_{\lambda}) =$$

$$\frac{1}{|w|} \cdot \overline{\mathbb{Q}}(w) = \hat{x}$$

$$=\frac{1}{|\nabla w_{i}|} \Phi \left(\nabla w_{i} \right) = \frac{1}{|\nabla w_{i}|} \Phi \left(\nabla w_{i} \right)$$

$$\mathbb{E}\widehat{\gamma} = \frac{1}{|w|} \cdot \mathbb{E}\underline{\Phi}(w) = \frac{1}{|w|} \wedge (\frac{w}{2}) = \frac{1}{|w|} \times |w| = \gamma = \gamma \quad \text{and iased}$$