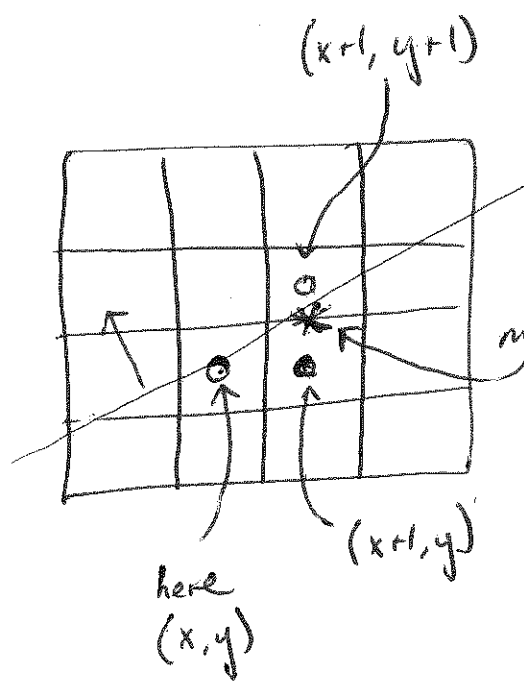
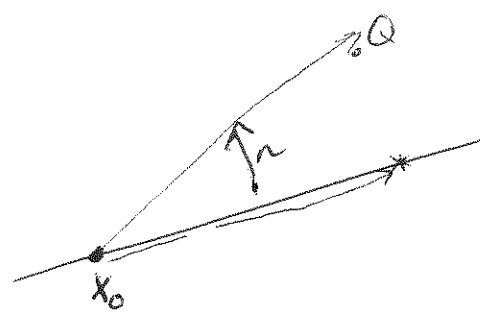


$$f(\vec{x}) = \vec{n} \cdot (\vec{x} - \vec{x}_0) = 0$$



$$f(Q) = \vec{n} \cdot (Q - \vec{x}_0) > 0 \quad \text{same side as } \vec{n}$$

$$\text{midpoint } (x+1, y + \frac{1}{2}) = M$$

condition

$$f(M) = \vec{n} \cdot (M - \vec{x}_0) < 0$$