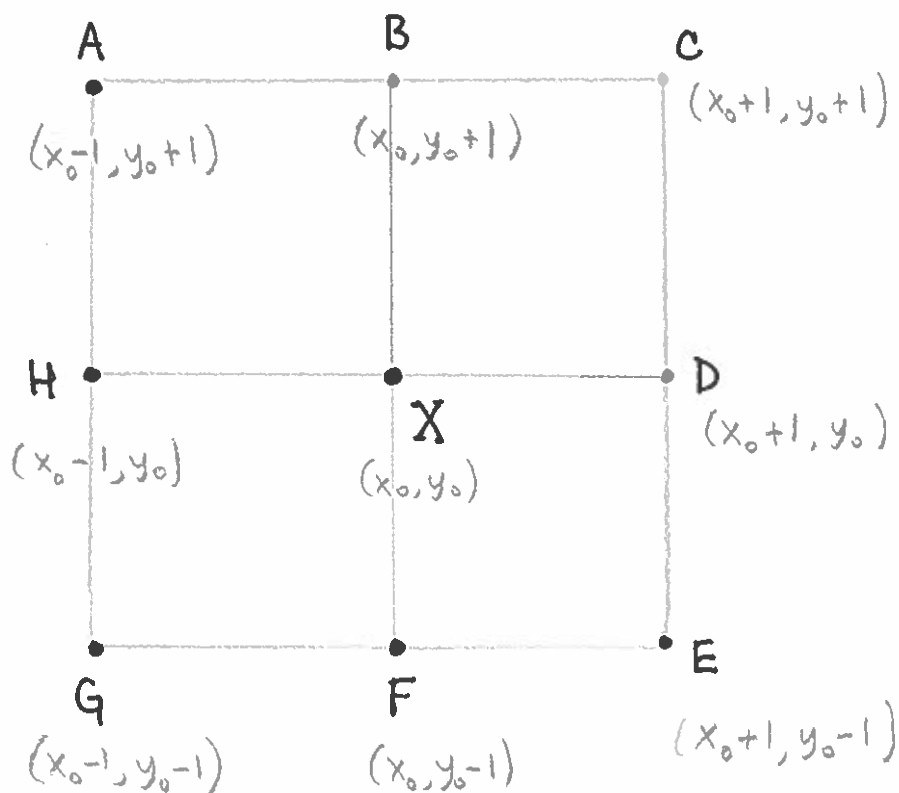


Let $(x_0, y_0) = X$ be an arbitrary point of the plane surrounded by the eight points A, B, C, D, E, F, G, H:



Let $f(\text{uppercase letter}) = \text{lower case letter}$
 i.e. $f(X) = x$, $f(A) = a$, $f(B) = b$, etc...

$$0 = (a + b + x + h) + (b + c + d + x) \\ + (h + x + f + g) + (x + d + e + f)$$

$$0 = 4x + 2(\underbrace{b + d + f + h}_0) + (\underbrace{a + c + e + g}_0)$$

$$0 = 4x \Rightarrow x = 0, \text{ but } X \text{ was arbitrary } \blacksquare$$