2-dimensional number conversion, x-y to number

1 2 3

. x, y

4 5 6

7 8 9

Determine the first digit in the number

(The digit to the upper left of the point)

Sub-divide the quadrant (/nine spaces including the spaces to the right and below) containing the point into the nine points

Repeat the first step on the quadrant in question

This generates the second digit

Repeat the sub-division to lower levels until the required precision is reached, e.g. 10 significant digits.

e.g. x = 0.6, y = 0.3, 2-d number = 2.3685 (not the actual value, an example only)