(i) points $(1,1)$ distance $= \sqrt{(a-1)^2 + (b-1)^2}$

X	Y	class	Euclidean Distance
-1	1	+	2
0	1	0	1
0	2	0	$\sqrt{2}$
1	-1	0	2
1	0	+	1
1	2	+	1
2	2	+	$\sqrt{2}$
2	3	0	$\sqrt{5}$

The 3 nearest point for $(1,1)$ is

$(0,1)$, $(1,0)$, $(1,2)$

The corresponding classes are 0, +, +

Thus

(1,1) should be classified as '+'.

(iii)

The nearset 7 points to (1, 1)

are (-1, 1), (0, 1), (0, 2), (1, -1), (1, 0), (1, 2)

(2, 2) with 4 '+' and 3 '0'.

Thus

(1,1) should be classified as '+'