

Apply Hough transform for fitting a line to black points in the binary image I.

- a. In the Hough transform, a point (x0, y0) in the xy-plane is mapped into a curve in the polar (d, θ) parameter space. Write down the equation of the curve.
- b. Fill in the accumulator array H. Identify the accumulator cell receiving the highest number of votes. Write down the equation of the identified line in polar coordinates.

H								
	0	1	$\sqrt{2}$	2	$2\sqrt{2}$	3	4	$3\sqrt{2}$
0								
$\pi/4$								
$\pi/2$								
$3\pi/4$								