- 3. We want to use Hough transform to identify the presence of parabolas in an edge image. Consider a parabola given by this equation $y = ax^2 + bx + c$. The Hough space for identifying parabolas is
 - (a) One dimensional
 - (b) Two dimensional
 - (c) Three dimensional
 - (d) Four dimensional
- 4. Following question 3, the parabola in space corresponds to what in the Hough space
 - (a) Parabola (b) Line
- (c) Sphere
- (d) Plane
- Following question 3, the general equation of the entity corresponding to the parabola in the Hough space is given by
 - (a) ax + by = c
 - (b) ax + by + z = c
 - (c) $y^2 = 4ax$
 - (d) $x^2 + y^2 + z^2 = 1$