Write down the algorithm/pseudo-code for drawing a Rossette from an N-gon. Your procedure should take as inputs the degree of the polygon, the center coordinates, the radius of the N-gon and the orientation of the N-gon with the x-axis.[6]

2. Show that the use of affine combination of two points results in the same point even if the coordinate system is changed.[4]

3. Calculate the intersection of two collinear line segments.[6]

4. Calculate the center and radius of the circle passing through three points (A,B and C).[6]

5. Derive the formula for changing coordinates from a world window to a view window.[4]

6. Write down the algorithm to select the best window having an aspect Ratio R from a frame of size H by W.[4]