

United Technical College, Bharatpur, Chitwan**Computer Graphics****Chapter 3: Two Dimensional Algorithms**

Date Assigned: 29 th Nov, 2022	Homework #3	Date Due: 13 th Dec, 2022
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1. Trace the coordinates in the first quadrant of a circle with radius 7 using midpoint circle algorithm.
2. How do you apply symmetry concept while drawing circle. Use midpoint algorithm to digitize circle with radius 10 and centre at (4, 3).
3. Using midpoint circle algorithm, calculate the co-ordinate on the first quadrant of a circle having radius 6 and center at (20,10).
4. Find the raster position along the region 1 of the ellipse path in first quadrant. The semi major and semi minor axes are 8 & 7 respectively and the center is (0, 0).
5. Digitize an ellipse in the first quadrant with center (-4,6) and x-radius =8 and y-radius =6.
6. Explain boundary fill and flood fill algorithm in detail using algorithms.