

## A1 Online 2

Time: 30 mins

Marks: 30

### Task:

See the four figures in the given pdf(figures.pdf) and generate them all using TikZ.

1. Figure 1: Draw grid, axis and circle. While labelling, notice how those numbers don't overlap with the grid lines.
2. Figure 2: Draw each of the three functions maintaining proper domains. Also put text labels as given.
3. Figure 3: Draw all the rectangles and put labels inside them. Do not worry about the size of the rectangles. Just keep the appearance the same.
4. Figure 4: Draw all the nodes considering the relative positions among them. Put all the directed edges and arc edges.

**Below is given the marks distribution:**

Figure 1		Figure 2				Figure 3		Figure 4		
draw	Text label	f1	f2	f3	Text label	draw	Text label	nodes	arrow edge	arc edge
3	4	1	3	2	2	2	2	6	3	2