
6. Suppose a window has its lowest left corner at $(-3,-2)$ and its upper-right corner at $(4,2)$. Find the visible portion of a line joining points $(-4,2)$ and $(3,5)$ using the Cohen Sutherland line clipping algorithm.

Answer any two questions: $10 \times 2=20$
7. Derive Mid-Point circle drawing algorithm. Using the Mid-point circle drawing algorithm draw a circle with a radius of 10 units.
$7+3$
8. Explain the reflection of a 2D figure on $\mathrm{y}=\mathrm{mx}+\mathrm{c}$. Derive its component matrix. $5+5$
9. Explain the DDA Line drawing algorithm with an example.
$6+4$
10. Derive the transformation matrix for rotation about any axis. What is homogeneous coordinate? Why is a homogeneous co-ordinate system needed in transformation matrix ?

