

```
Modify main() function as follows:

int main(int argc, char** argv)
{

case '-':
    zooming in ?????
    break;

myInit();

myInit();

myInit();

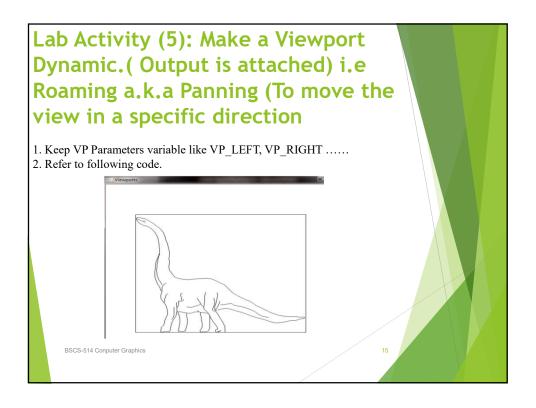
mySource Graphics

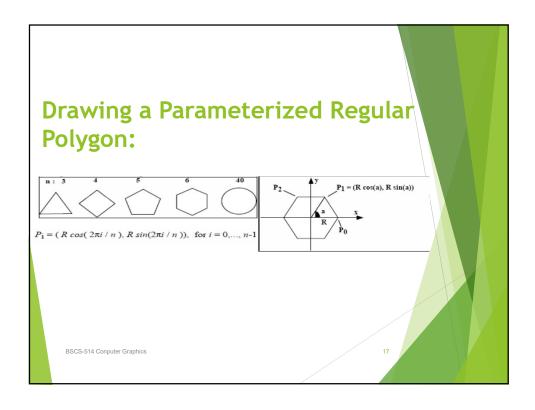
void keyboard (unsigned char key, int x, int y)
{
    case '-':
    zooming in ?????
    break;

    case '+':
    zooming out ?????
    break;

case 'q': exit (1);
}

glutPostRedisplay();
}
```





```
Lab Activity (6): Modify Display

Function as follows

If the no of sides of an n-gon is large, the n-gon approximates a CIRCLE in an appearance appear
```

```
Lab Activity(8) - Plotting Parametric form of curves (Chap 3, Page No.137-144)
const int NUMPOINTS = 200; // the number
                                               void display(void)
of sample points to use for the parametric
function
                                                      setBackgroundColor(1,1,1);
                                                      clearScreen();
                                                      setColor(0,0,1);
#define CIRCLE 1
                                               // Initialize tmin and tmax
#define ROSE 4
                                               // Calculate the world window [xmin, xmax]
                                               x [ymin, ymax]
// Parametric equations for (x(t), y(t))
float x(float t)
                                                // Calculate and store points on curve in an
                    return 1; }
                                                array i.e. compute curve
float y(float t)
                                                //update xmin, ymin, xmax,ymax
                   return 1; }
                                               //setWindow(xmin, xmax, ymin, ymax);
Void computeCurve() { .....}
                                               // plotCurve using lineTo and moveTo
void plotCurve() {......}
                                               glFlush(); // force drawing to the screen
                                                  · Cardioid:
                                                                      f(\theta) = K(1 + cos(\theta)).
                                                  • Rose curves: f(\theta) = K \cos(n \theta), where n
 x = f(\theta) \cdot \cos(\theta)
y = f(\theta) \cdot \sin(\theta)
       BSCS-514 Conputer Graphics
```

