```
外顶点:
i=(0,1,2,3,4)
x:cos((18+72*i)/180*Math.PI*R);

内顶点:
i=(0,1,2,3,4)
x:cos((54+72*i)/180*Math.PI )*r
v:-sin((54+72*i)/180*Math.PI )*r
v:-sin(90deg)*R
v:-sin(126deg)*r
v:-sin(126deg)*r
v:-sin(126deg)*R
1: cos(18度)*R,-sin(18度)
```

```
<!DOCTYPE html>
<html>
     <head>
          <meta charset="UTF-8">
     </head>
     <body>
          <canvas id="myCanvas" style="border: 2px solid black;" width="270px"</pre>
height="170px"></canvas>
         <script type="text/javascript">
              window.onload = function() {
                   var canvas = document.getElementById("myCanvas");
                   canvas.width = 800;
                   canvas.height = 800;
                   var context = canvas.getContext("2d");
                   context.beginPath();
                   for(var i=0; i<5; i++) {
                        context.lineTo(Math.cos((18+i*72)/180*Math.PI)*300+400,
Math.\sin((18+i*72)/180*Math.PI)*300+400);
                        context.lineTo(Math.cos((54+i*72)/180*Math.PI)*150+400,
Math.\sin((54+i*72)/180*Math.PI)*150+400);
                   context.closePath();
                   context.lineWidth = 10;
                   context.stroke();
          </script>
     </body>
</html>
```

## 2.封装绘制5角星的库

```
x: cos(90deg) * R
      y: -sin(90deg) * R
                                              54 deg
 x: cos(126deg) * r
                               x: cos(54deg)
                                                  → 18 deg
 y: -sin(126deg) * r
                               y: -sin(54deg)
                                              x: cos(18deg) * R
                                              y: -sin(18deg) * R
context.closePath();
context.lineWidth = 10;
                  context.stroke();
                  if(isFill) {
                      context.fill();
                  }
}
函数drawFiveStar(context,r1,r2,x,y,isFill) 中的参数说明
1.r1与r2是小圆半径
2.x与y是中心坐标
3.isFill表示是否填充绘制
```