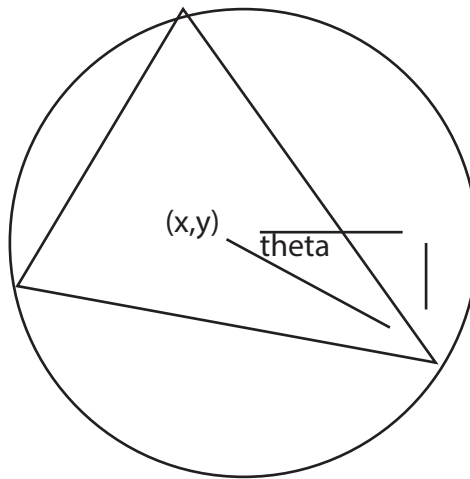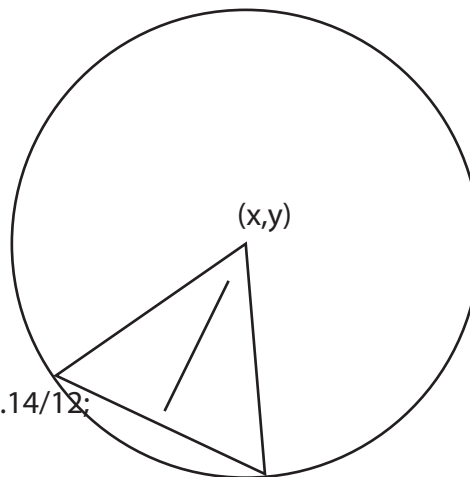theta = atan(xvX/vY)-3.14*2/3;
x = x+sin(theta);
y = y+cos(theta);

theta = atan(xvX/vY)+3.14*2/3;
x = x+sin(theta);
y = y+cos(theta);

(x,y)

theta

theta = atan(xvX/vY)
x = x+sin(theta);
y = y+cos(theta);

(x,y)

theta = atan(xvX/vY)+3.14/12;
x = x+sin(theta);
y = y+cos(theta);

theta = atan(xvX/vY)-3.14/12;
x = x+sin(theta);
y = y+cos(theta);

x + 10 * sin(vX/vY)