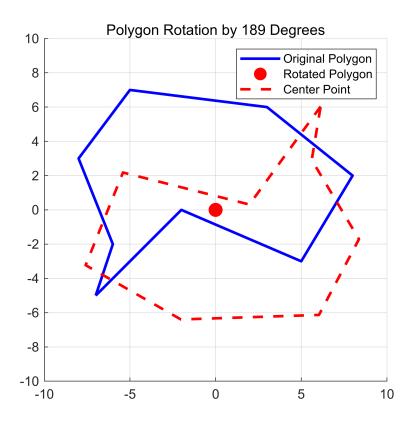
```
vertices = [-7 -5; -2 0; 5 -3; 8 2; 3 6; -5 7; -8 3; -6 -2];
id_number = 12210309;
rotate_polygon(vertices, id_number);
```



```
function rotate_polygon(vertices, id_number)
    x_limits = [-10, 10];
    y_limits = [-10, 10];

    x_center = (x_limits(1) + x_limits(2)) / 2;
    y_center = (y_limits(1) + y_limits(2)) / 2;

angle = mod(id_number, 360);
    theta = deg2rad(angle);

figure;
hold on;
axis equal;
xlim(x_limits);
ylim(y_limits);
grid on;

translated_vertices = vertices - [x_center, y_center];
```