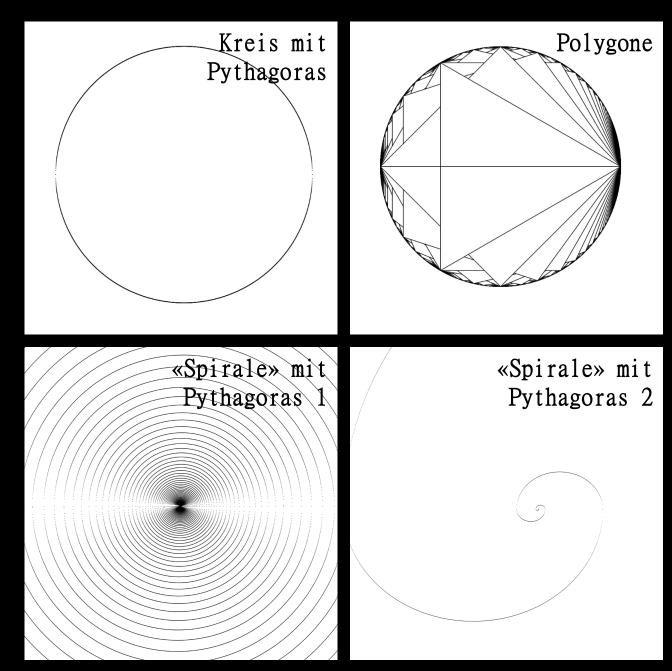
```
function setup() {
   let r = 200;
   let xpos = windowWidth / 2;
   let ypos = windowHeight / 2;
    createCanvas(windowWidth - 40, windowHeight - 40);
   drawCircle(xpos, ypos, r);
    //drawSpiral(xpos, ypos, 0.5, 5);
function drawCircle(xpos, ypos, r) {
   for (let x = 0; x \le r; x += 0.1) {
        let y = sqrt(r * r - x * x);
        point(x + xpos, y + ypos);
        point(x + xpos, -y + ypos);
        point(-x + xpos, y + ypos);
        point(-x + xpos, -y + ypos);
function drawSpiral(xpos, ypos, growth, size) {
   let r = 0;
   for (let i = 0; i < size; i++) {
        for (let x = r; x >= -r; x--) {
            let y = sqrt(r * r - x * x);
            point(x + xpos, y + ypos);
            r += growth;
        for (let x = r; x \ge -r; x --) {
            let y = sqrt(r * r - x * x);
            point(-x + xpos, -y + ypos);
            r+=growth;
```

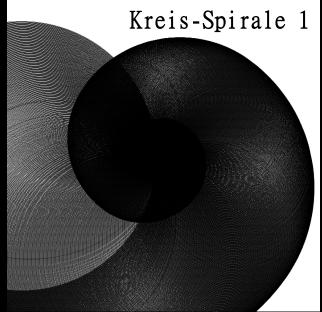


```
function setup() {
   let r = 200;
   let xpos = windowWidth * 0.8 / 2;
   let ypos = windowHeight * 0.8 / 2;
   createCanvas(windowWidth * 0.8, windowHeight * 0.8);
   drawCircle(xpos, ypos, r);
   //drawSpiral(xpos, ypos, 20, 5);
function drawCircle(xpos, ypos, r) {
   let x = -r;
   let y = 0;
   point(x + xpos, y + ypos);
   //1/8
   while (y > x) {
       let r1 = sqrt(x * x + (y - 1) * (y - 1));
       let r2 = sqrt((x + 1) * (x + 1) + (y - 1) * (y - 1));
       if (Math.abs(r1 - r) > Math.abs(r2 - r)) {
           x++;
       } else {
           y--;
       point(x + xpos, y + ypos);
   //2/8
   while (x < 0) {
       let r1 = sqrt((x + 1) * (x + 1) + (y - 1) * (y - 1));
       let r2 = sqrt((x + 1) * (x + 1) + y * y);
       if (Math.abs(r1 - r) > Math.abs(r2 - r)) {
           x++;
       } else {
            X++;
           y--;
        point(x + xpos, y + ypos);
   //3/8
   // (usw. für alle 8 Kreisabschnitte...)
```





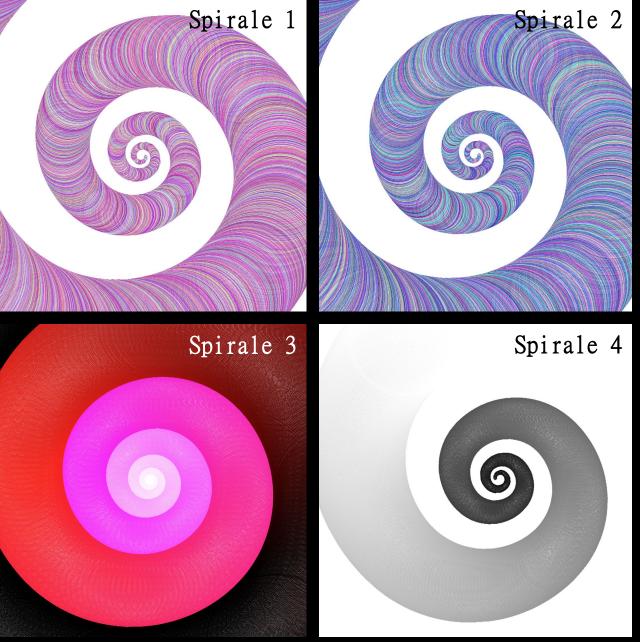
```
function setup() {
   let r = 200;
   let xpos = windowWidth * 0.8 / 2;
   let ypos = windowHeight * 0.8 / 2;
   createCanvas(windowWidth * 0.8, windowHeight * 0.8);
   //drawSpiral(xpos, ypos, 12, 6);
   drawSpiral(xpos, ypos, 20, 3);
function drawSpiral(xpos, ypos, growth, size) {
   growth *= 0.01;
   let r = 10;
   let x = -r;
   let y = 0;
   drawCircle(x + xpos, y + ypos, r / 3);
   r += growth;
   for (let i = 0; i <= size; i++) {
       console.log(x + " " + y);
       //1/8
       while (y >= x) {
            let r0 = sqrt((x - 1) * (x - 1) + (y - 1) * (y - 1));
            let r1 = sqrt(x * x + (y - 1) * (y - 1));
            let r2 = sqrt((x + 1) * (x + 1) + (y - 1) * (y - 1));
            if (Math.abs(r1 - r) > Math.abs(r2 - r)) {
               x++;
            } else if (Math.abs(r0 - r) > Math.abs(r1 - r)) {
            } else {
                x--;
               y--;
            drawCircle(x + xpos, y + ypos, r / 3);
            r += growth;
       //2/8
       // (usw. für alle 8 Spiralenabschnitte...)
   function drawCircle(xpos, ypos, r) {
        // (...)
```





werdenden Kreisen grösser Spiralen aus g mit Bresenham

```
let red = 255;
let green = 255;
let blue = 255;
//(...)
//Spirale 3
if (green > 0) {
    green -= 0.2;
} else if (blue > 0) {
    blue -= 0.2;
} else if (red > 0) {
    red -= 0.2;
//Spirale 1
red = random(255) * 0.5 + 127.5;
green = random(255);
blue = random(255) * 0.5 + 127.5;
//Spirale 4
red = r * 2;
green = r * 2;
blue = r * 2;
```



Experimente mit Farbe