Dan Vanie Daniel

22-IV-2024

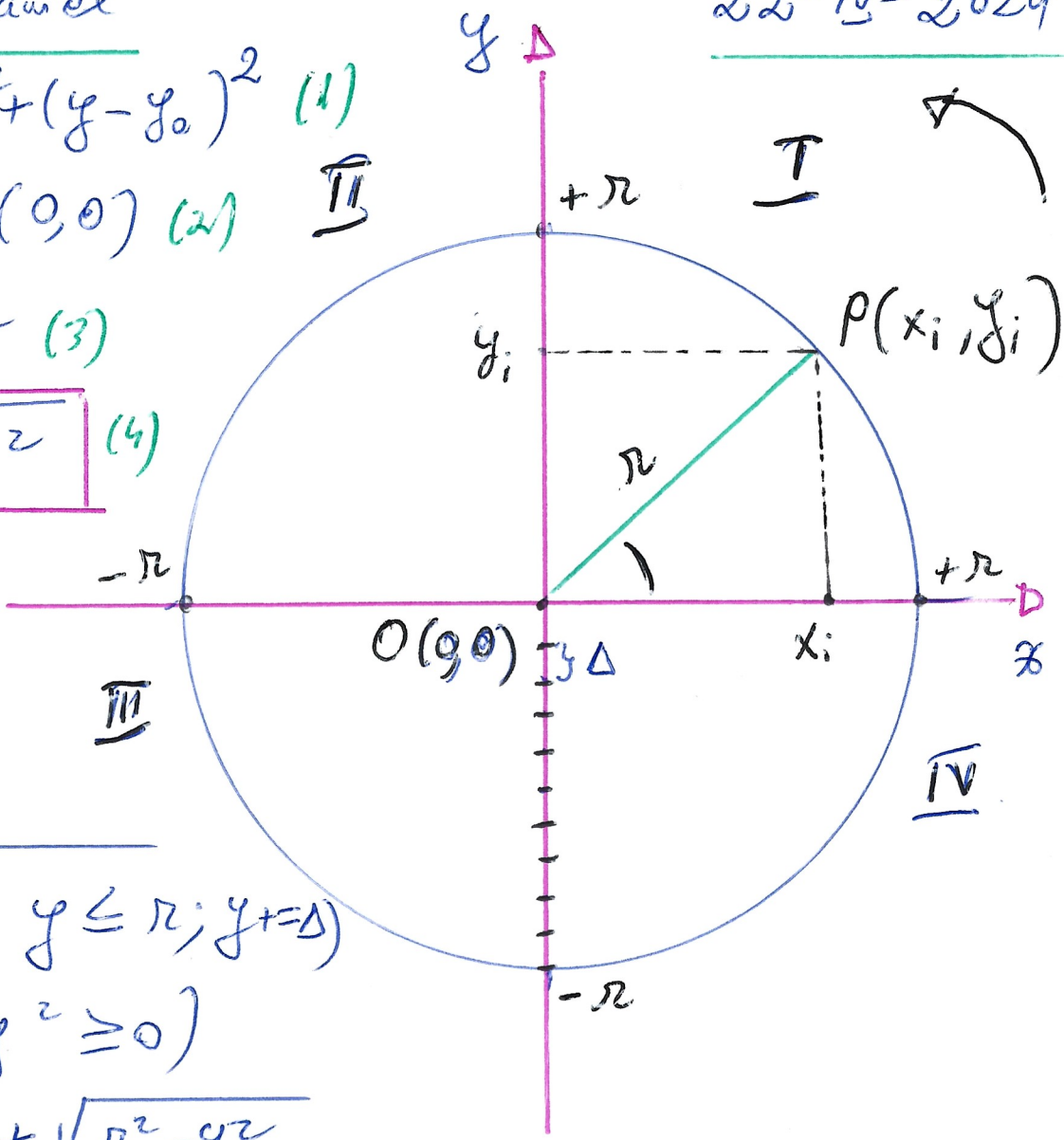
$$r^2 = (x-x_0)^2 + (y-y_0)^2 \quad (1)$$

$$O(x_0, y_0) = O(0,0) \quad (2)$$

$$r^2 = x^2 + y^2 \quad (3)$$

$$\boxed{x = \pm\sqrt{r^2 - y^2}} \quad (4)$$

Δ = step (5)



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for($y = -r$; $y \le r$; $y += \Delta$)

if($r^2 - y^2 \ge 0$)

$$x = +\sqrt{r^2 - y^2}$$

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for($y = r$; $y \ge -r$; $y -= \Delta$)

if($r^2 - y^2 \ge 0$)

$$x = -\sqrt{r^2 - y^2}$$
