Définition Atan(x,y)

$$Atan(x,y) := \begin{cases} \arctan\left(\frac{y}{x}\right) + \pi & \text{if } (x < 0)\cdot(y \geq 0) \\ \arctan\left(\frac{y}{x}\right) + \pi & \text{if } (x < 0)\cdot(y < 0) \\ \arctan\left(\frac{y}{x}\right) + 2\cdot\pi & \text{if } (x > 0)\cdot(y < 0) \\ \frac{\pi}{2} & \text{if } (x = 0)\cdot(y > 0) \\ \frac{3\cdot\pi}{2} & \text{if } (x = 0)\cdot(y < 0) \\ \arctan\left(\frac{y}{x}\right) & \text{otherwise} \end{cases}$$