

Définition Atan(x,y)

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