

# Numbers

## Real, complex

$$i := 1, 2..7$$

$$i = \begin{bmatrix} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \end{bmatrix}$$

$$j := -5, -4..5$$

$$j = \begin{bmatrix} -5 \\ -4 \\ -3 \\ -2 \\ -1 \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \end{bmatrix}$$

$$\frac{1}{2} = 0.5$$

$$\frac{-1}{3} = -0.333$$

$$\frac{-1}{3} = -0.3333333333$$

$$\sqrt{3} = 1.73205080756888$$

$$1i^2 = -1$$

$$(5 \cdot 1i)^2 = -25$$

$$(5i + 1)^2 = -24 + 10i$$

$$\sqrt{-4} = 2i$$

$$\sqrt{-3} = 1.73205080756888i$$

$$\text{Vector} := \begin{bmatrix} 1 \\ 2.12 \end{bmatrix}$$