

# Mathcad Examples

## Assigning Variables

$$X := 5$$

$$X \cdot 5 = 25$$

## Algebra

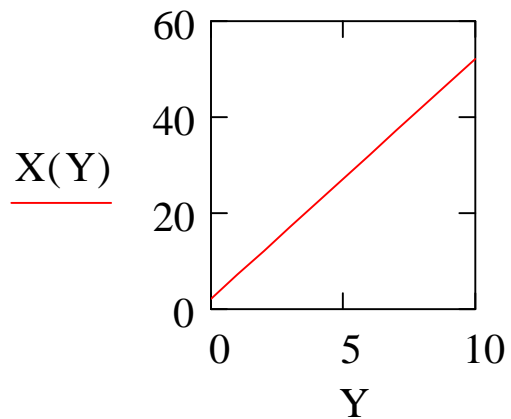
$$A = B \cdot C$$

$$\frac{A}{B}$$

## Graphing

$$Y := 0, 1 \dots 10$$

$$X(Y) := Y \cdot 5 + 2$$



## Calculus

$$\int_0^{\frac{\pi}{2}} \cos(x) dx = 1$$

## Units

$$\text{mass} := 50 \cdot \text{gm}$$

$$\text{velocity} := 25 \cdot \text{m} \cdot \text{s}^{-1}$$

$$\text{KE} := \frac{1}{2} \cdot \text{mass} \cdot \text{velocity}^2$$

$$\text{KE} = 15.625 \cdot \text{kg} \cdot \text{m}^2 \cdot \text{s}^{-2}$$

$$\text{KE} = 15.625 \cdot \text{joule}$$

## Functions

$$t := 0, 0.1 \dots 4 \cdot \pi$$

