

# MRUV

aceleração escalar e equação  
da velocidade

**Prof. Jadoski**

Física

# Aceleração escalar



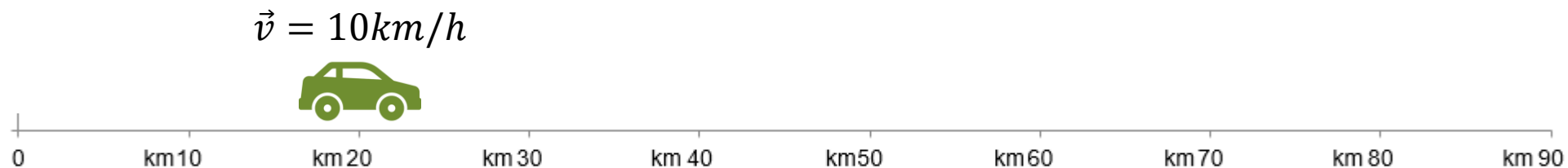
$$V = 20\text{m/s}$$



$$a = 5\text{m/s}^2$$

$$a = -5\text{m/s}^2$$

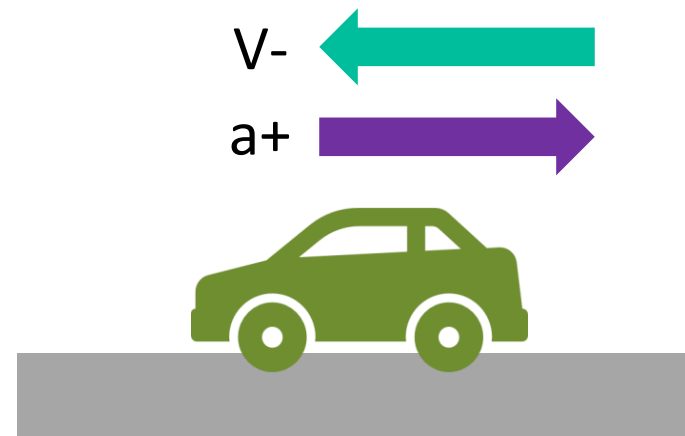
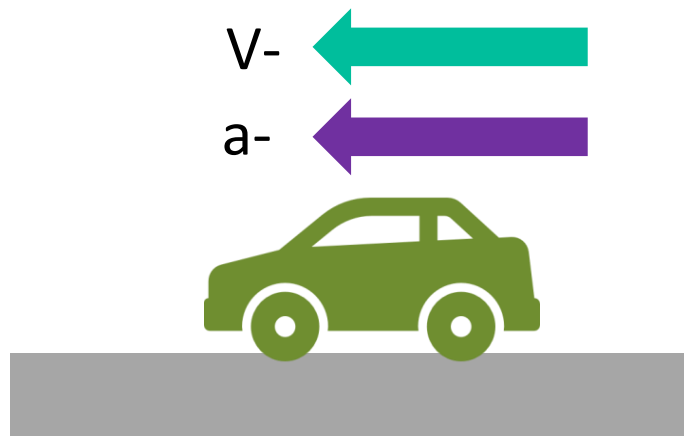
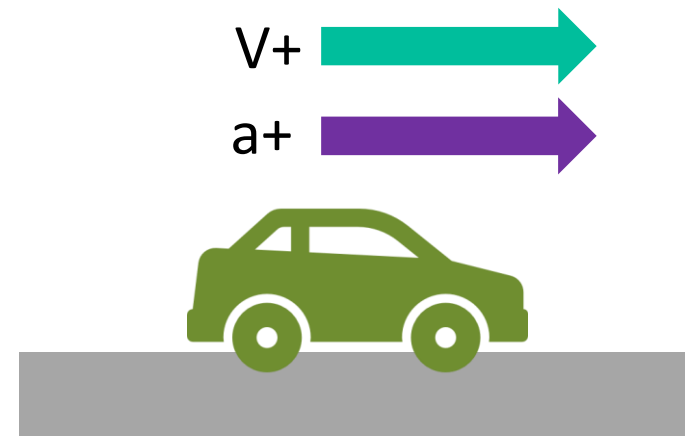
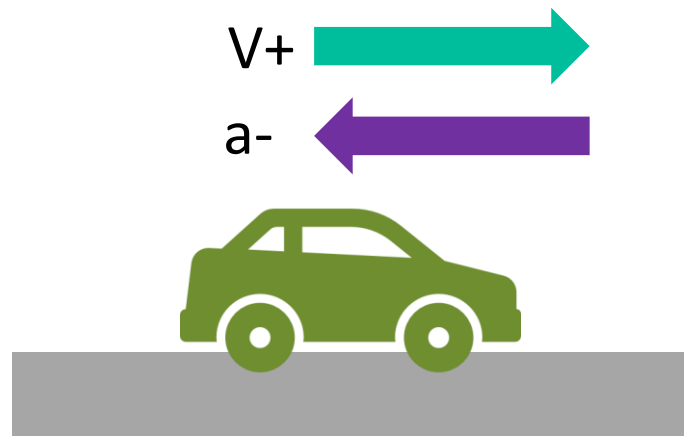
# Aceleração escalar



Como diferenciamos, numericamente, o sentido do movimento do carro?

Como diferenciamos, numericamente, a posição do carro ser 20km a direita ou a esquerda da origem?

# Aceleração escalar



## Equação horária da velocidade

---

$$V = V_0 + a.t$$

## Equação horária da velocidade

---

$$V = V_0 + a.t$$

$$V = 10 + 2.t$$

## Equação horária da velocidade

---

$$V = V_0 + a.t$$

$$V = 10 + 2.t$$

$$V = 10 - 2.t$$

## Equação horária da velocidade

$$V = V_0 + a.t$$

$$V = 10 + 2.t$$

$$V = -10 + 2.t$$

$$V = 10 - 2.t$$

$$V = -10 - 2.t$$



## Equação horária da velocidade

$$V = V_0 + a.t$$

$$V = 10 + 2.t$$

$$V = -10 - 2.t$$



## Equação horária da velocidade

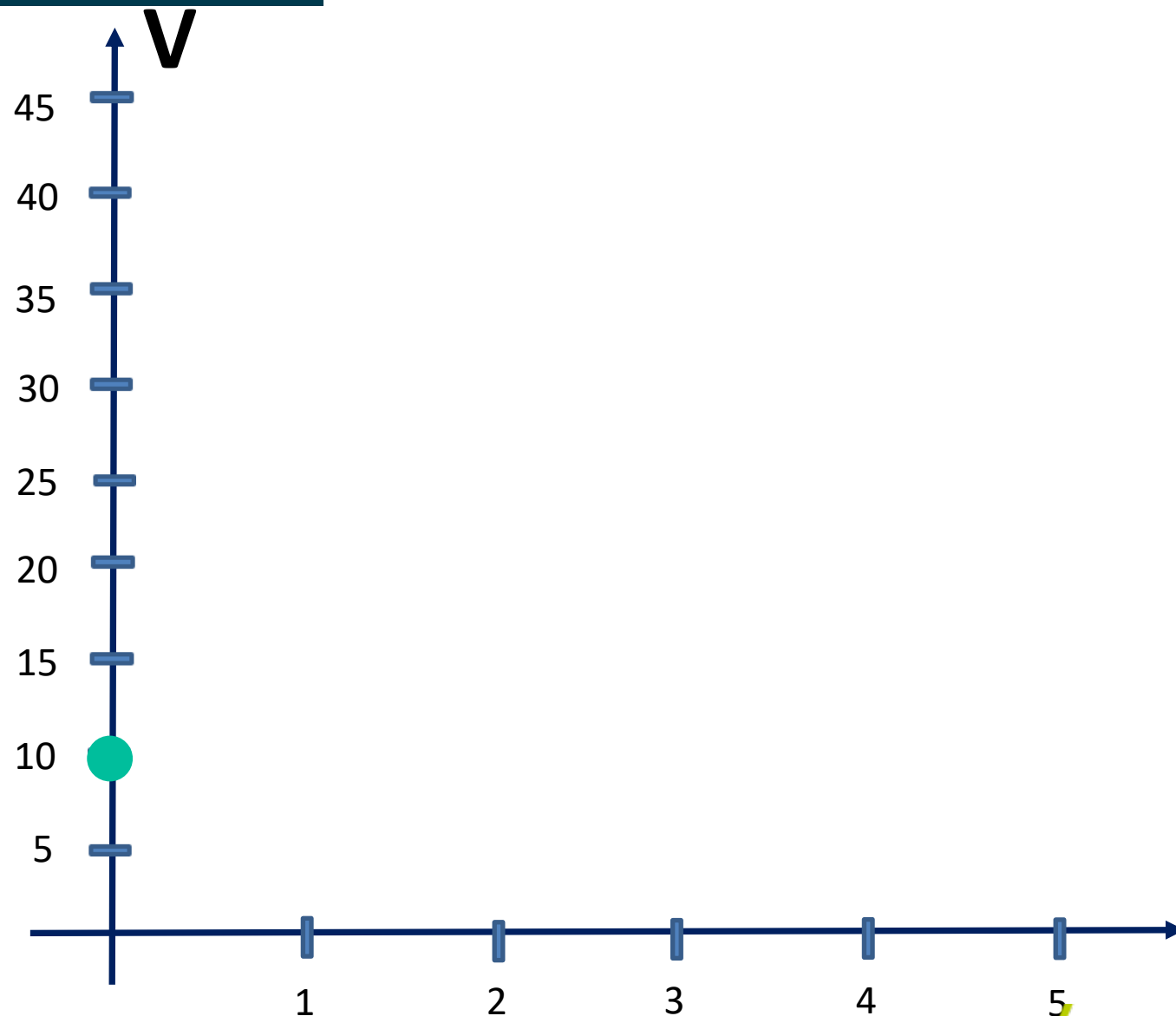
$$V = V_0 + a.t$$

$$V - V_0 = a.t$$

$$\Delta V = a.t \quad a = \frac{\Delta V}{t}$$

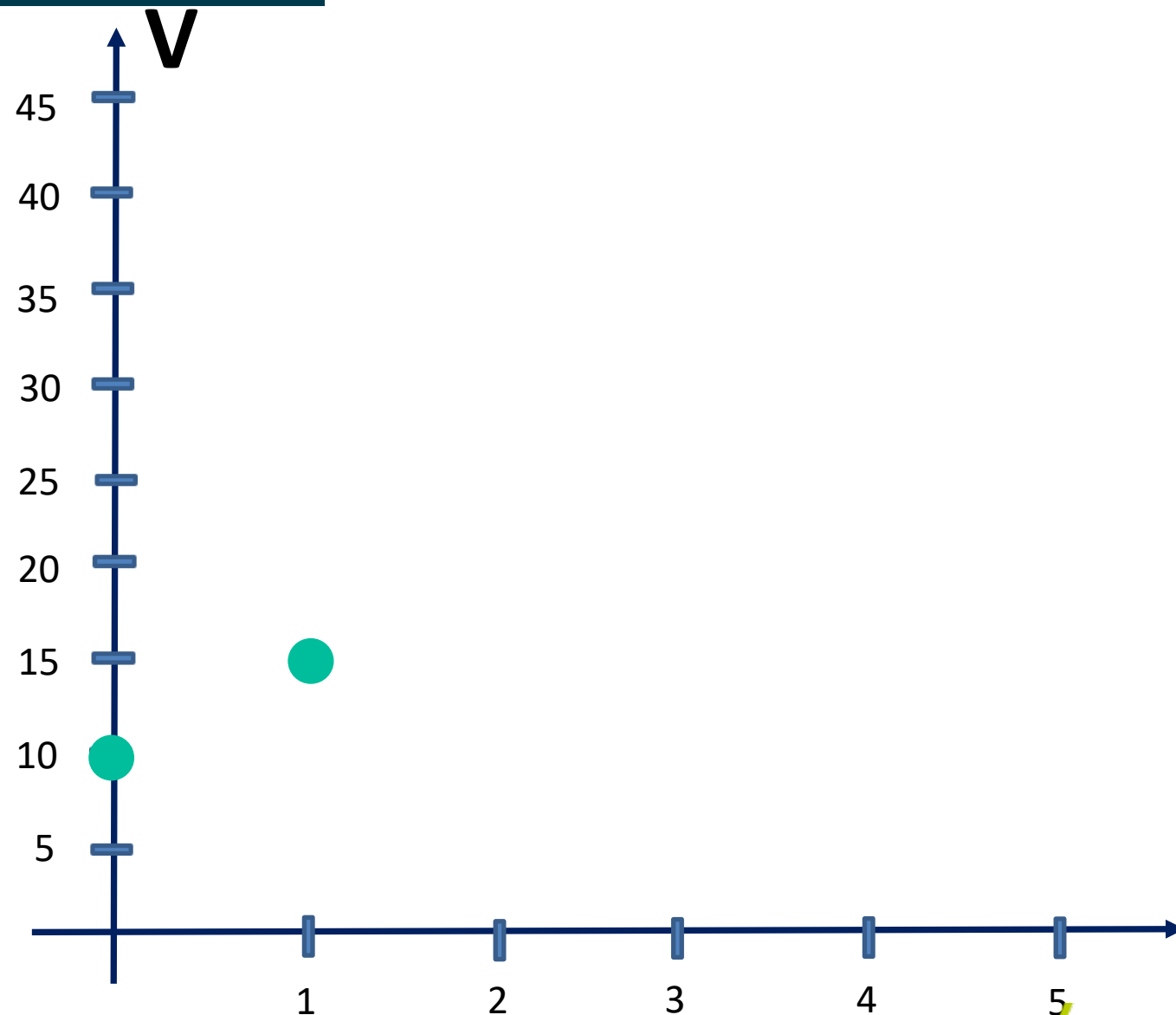
# MRUV

$$V = 10 + 5t$$



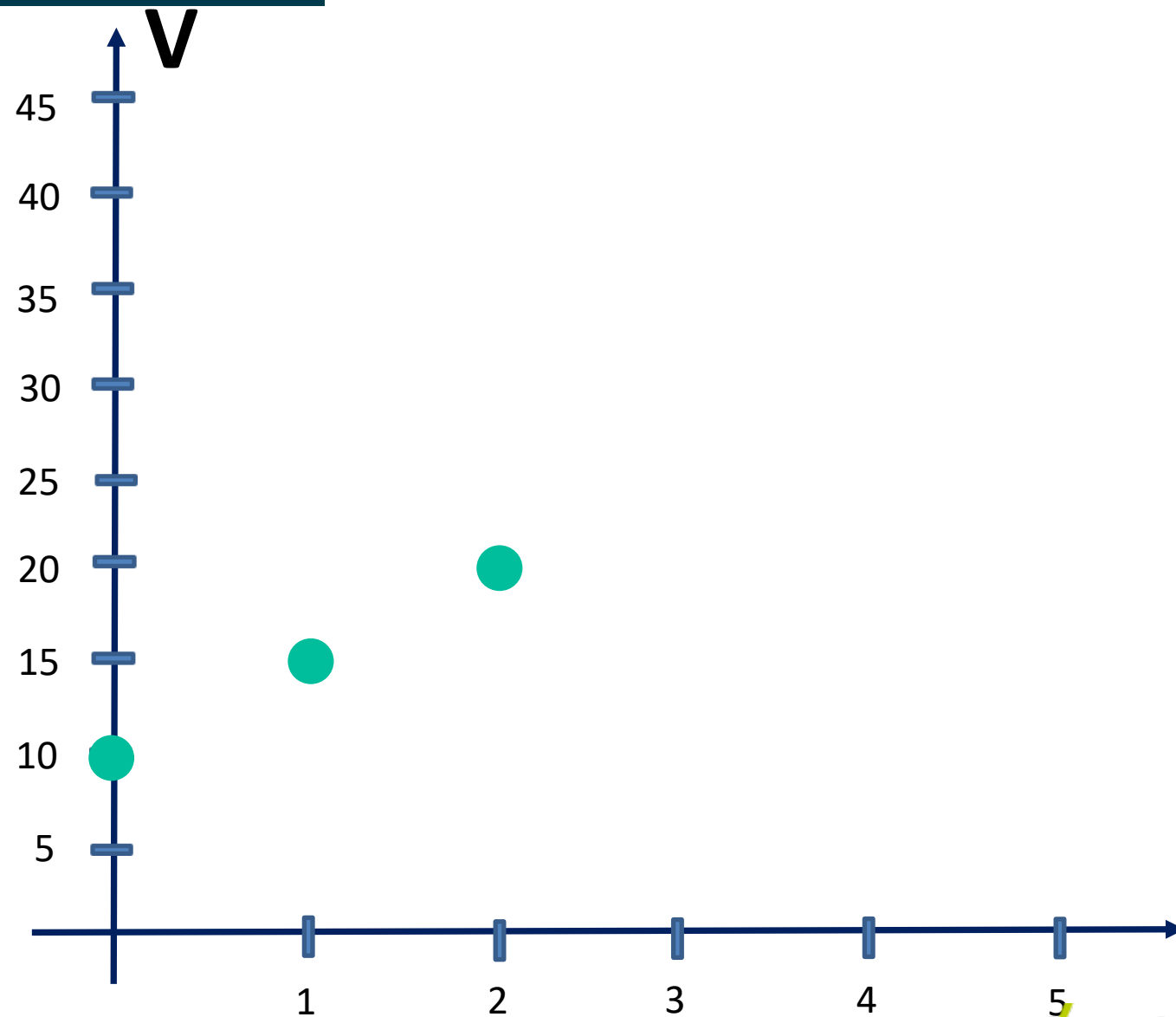
# MRUV

$$V = 10 + 5t$$



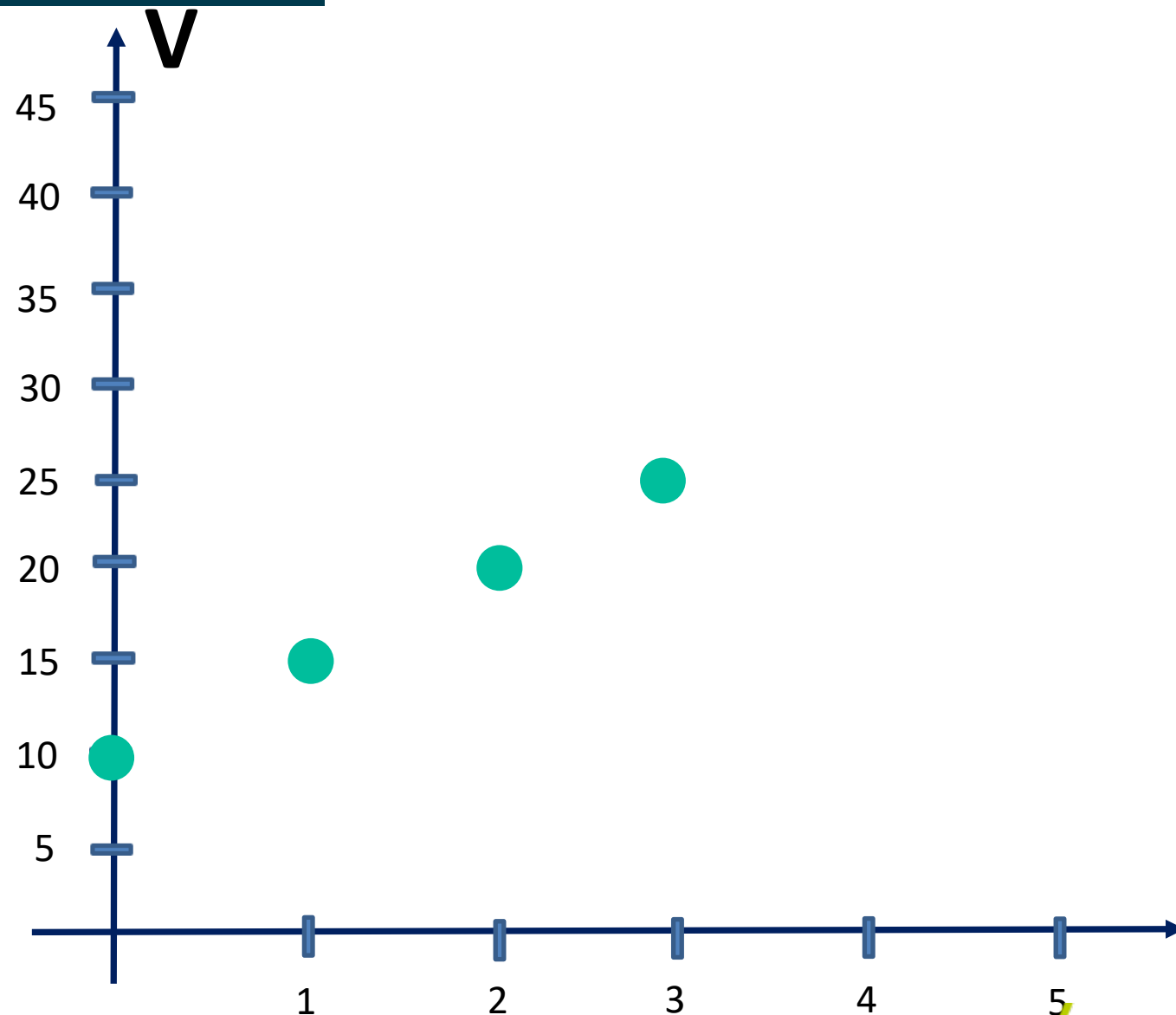
# MRUV

$$V = 10 + 5t$$



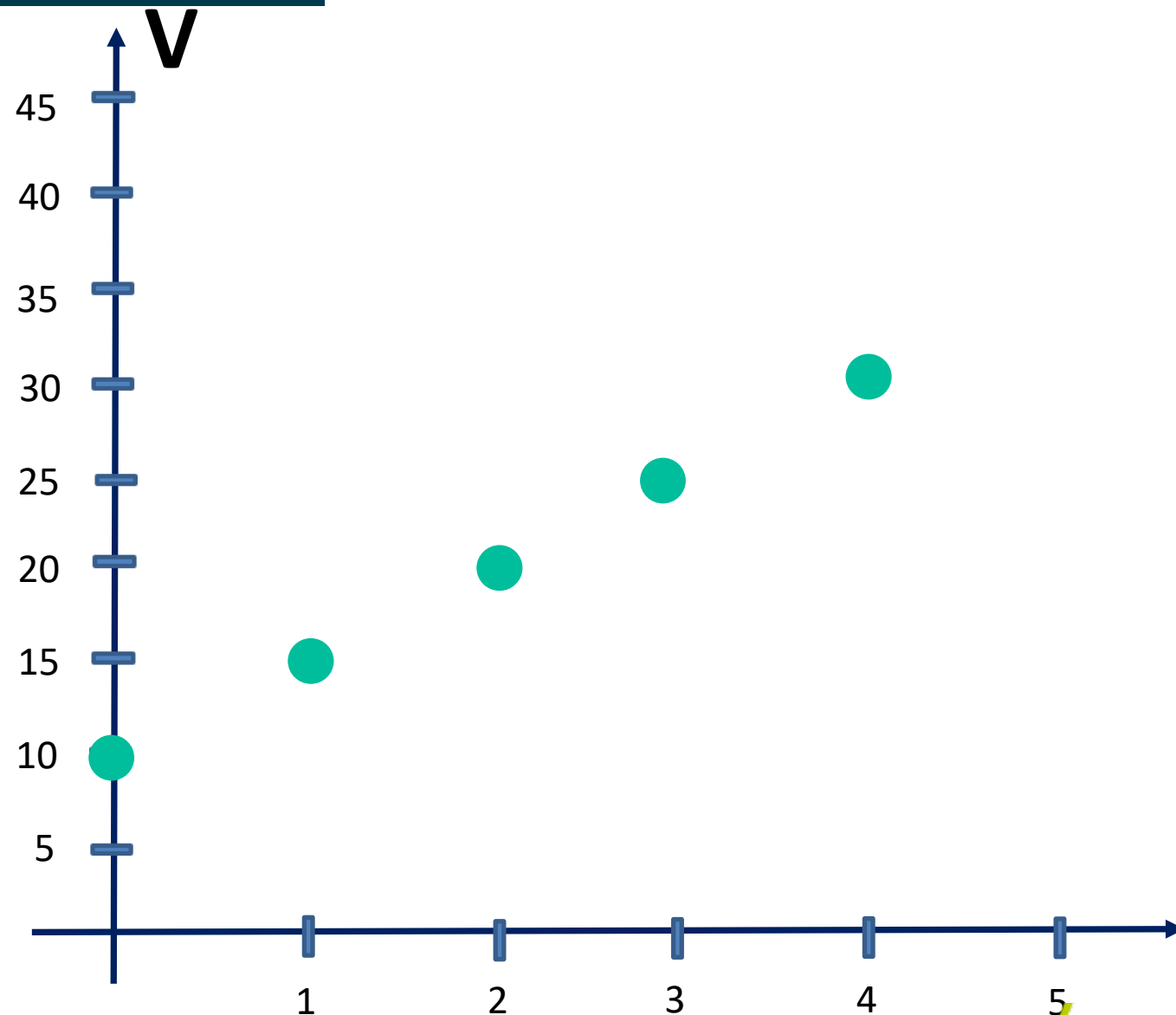
# MRUV

$$V = 10 + 5t$$



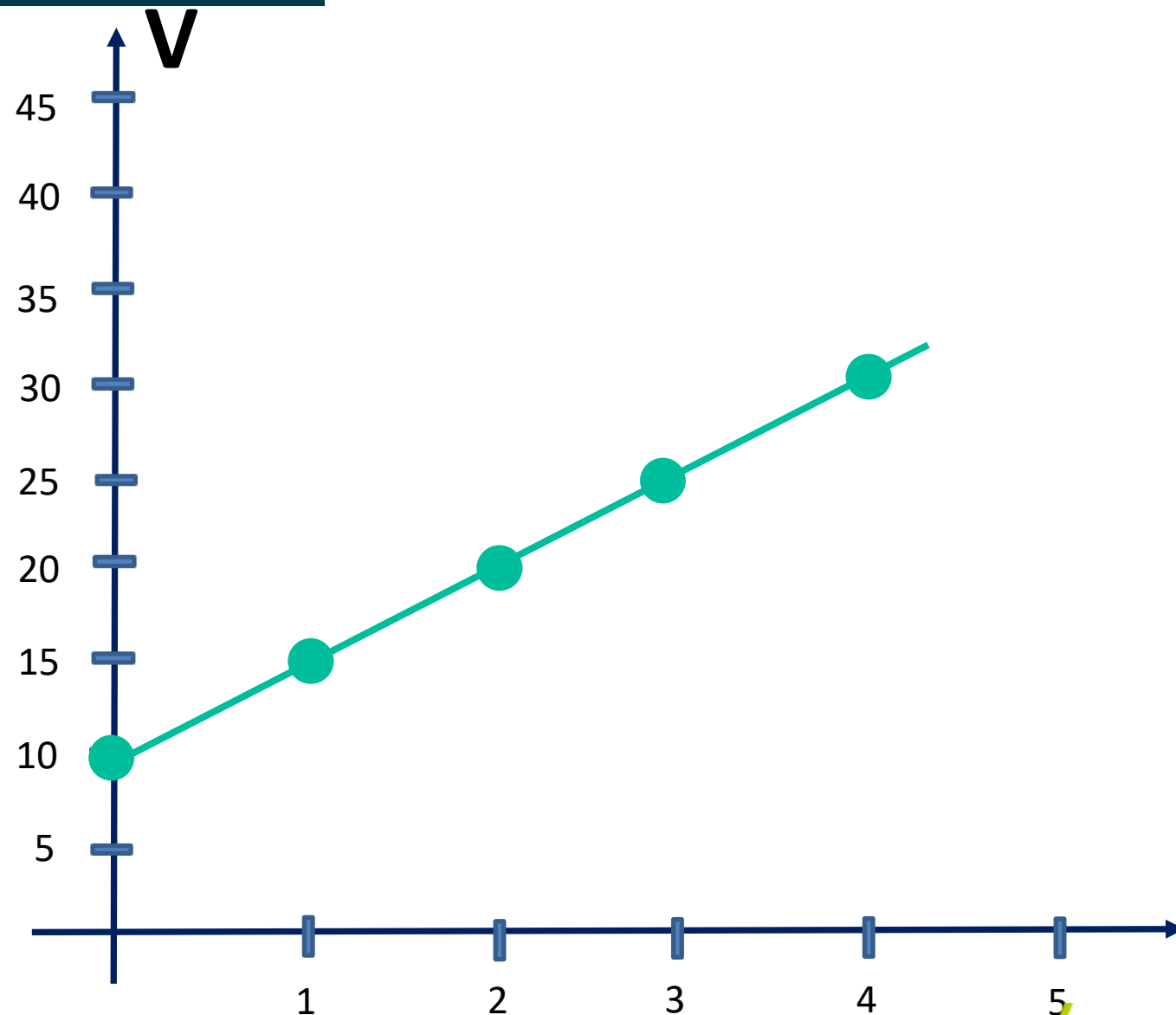
# MRUV

$$V = 10 + 5t$$



# MRUV

$$V = 10 + 5t$$



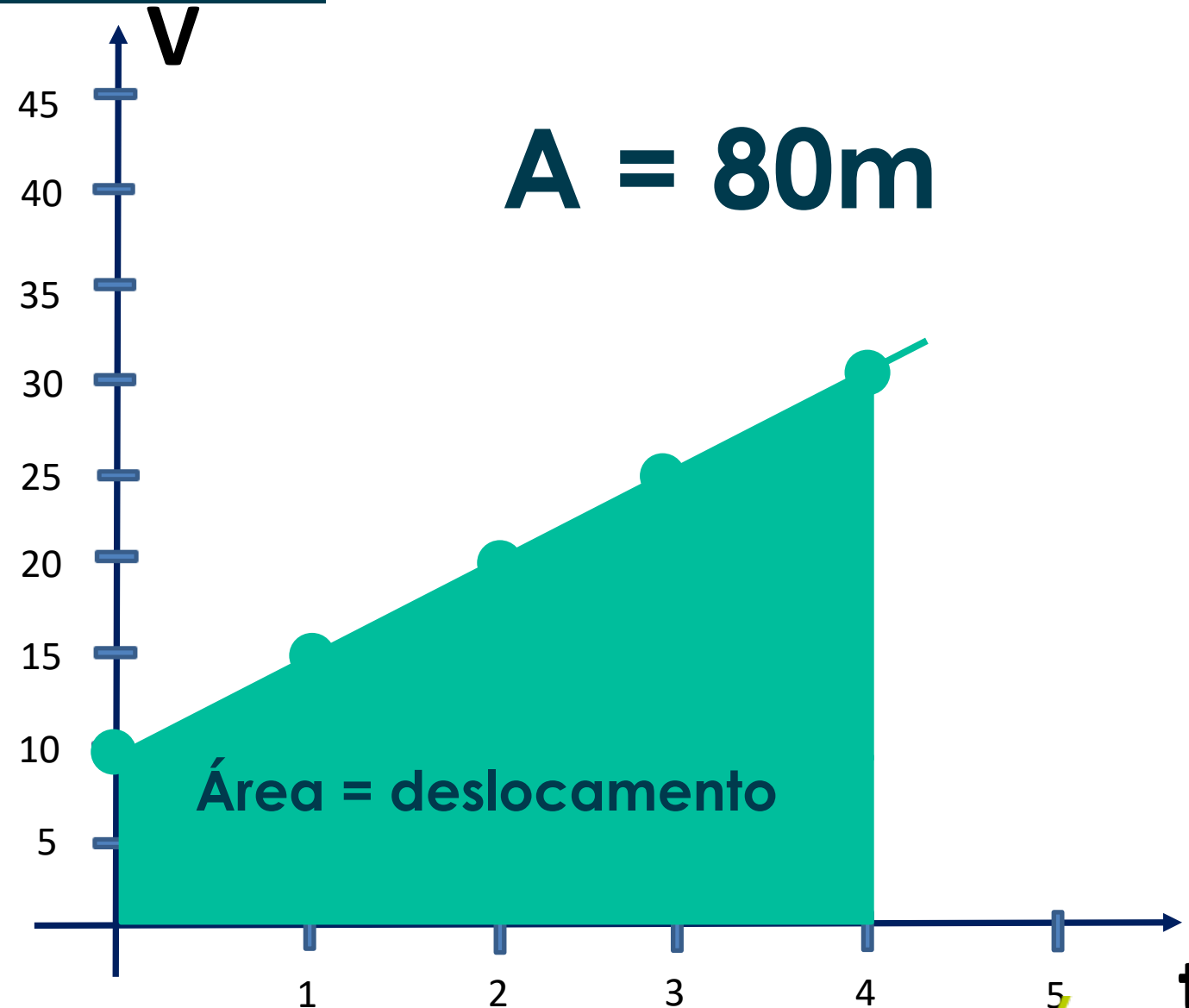


# MRUV

$$V = 10 + 5t$$

$$A = \frac{(B+b).h}{2}$$

$$A = \frac{(30+10).4}{2}$$



# MRUV

aceleração escalar e equação da velocidade

**Prof. Jadoski**

Física