

Composição de movimentos

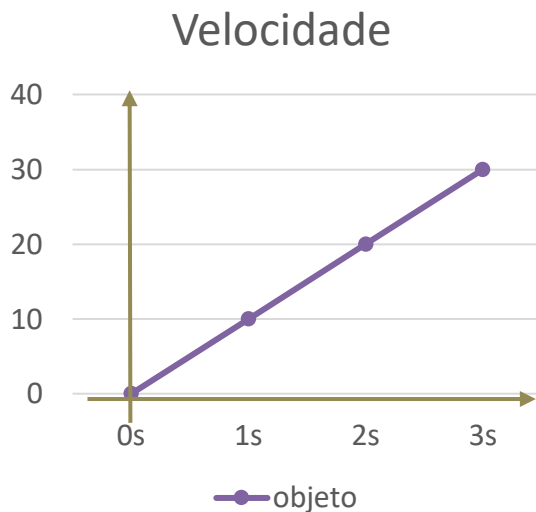
Prof. Jadoski
Física

MU + MU



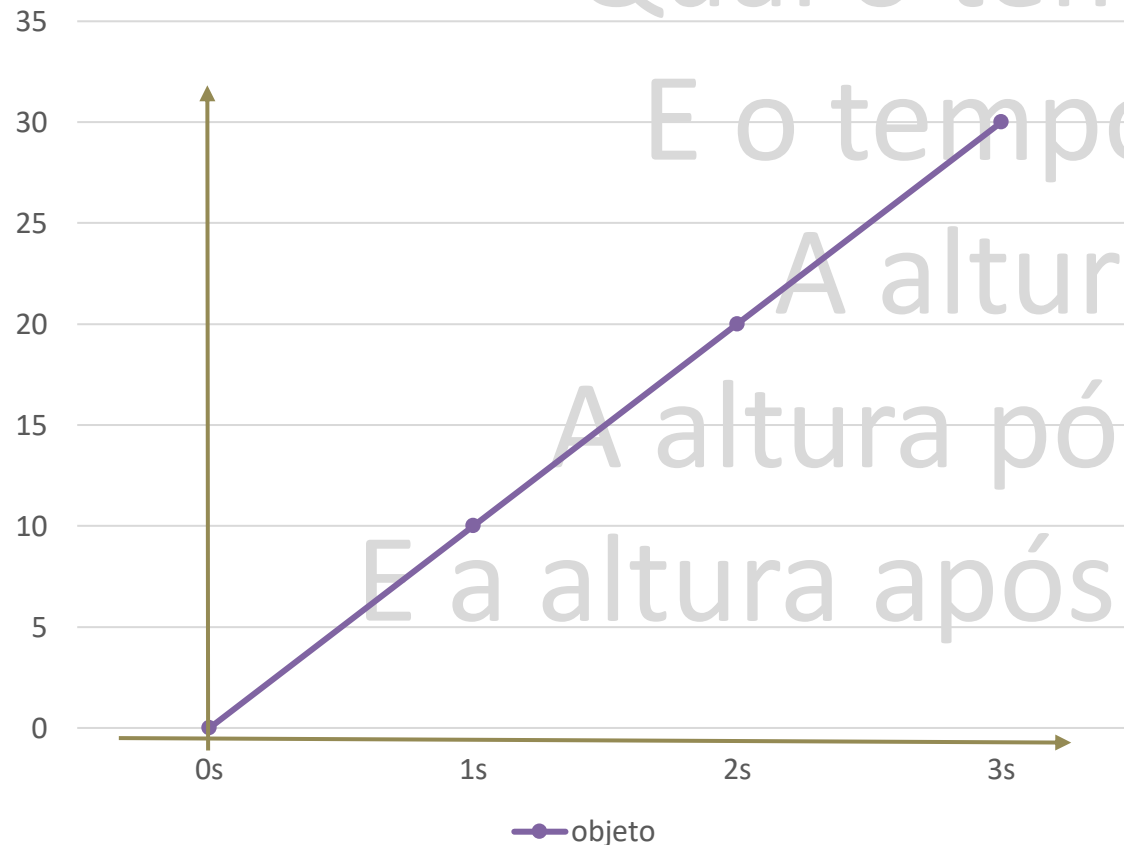
MUV + MU

E se, ao mesmo tempo que o objeto sobe (por 3s), ele também se deslocar para a direita com 2m/s



Um objeto é lançado verticalmente pra cima com velocidade de 30m/s.

Velocidade



Um objeto é lançado verticalmente pra cima com velocidade de 30m/s.

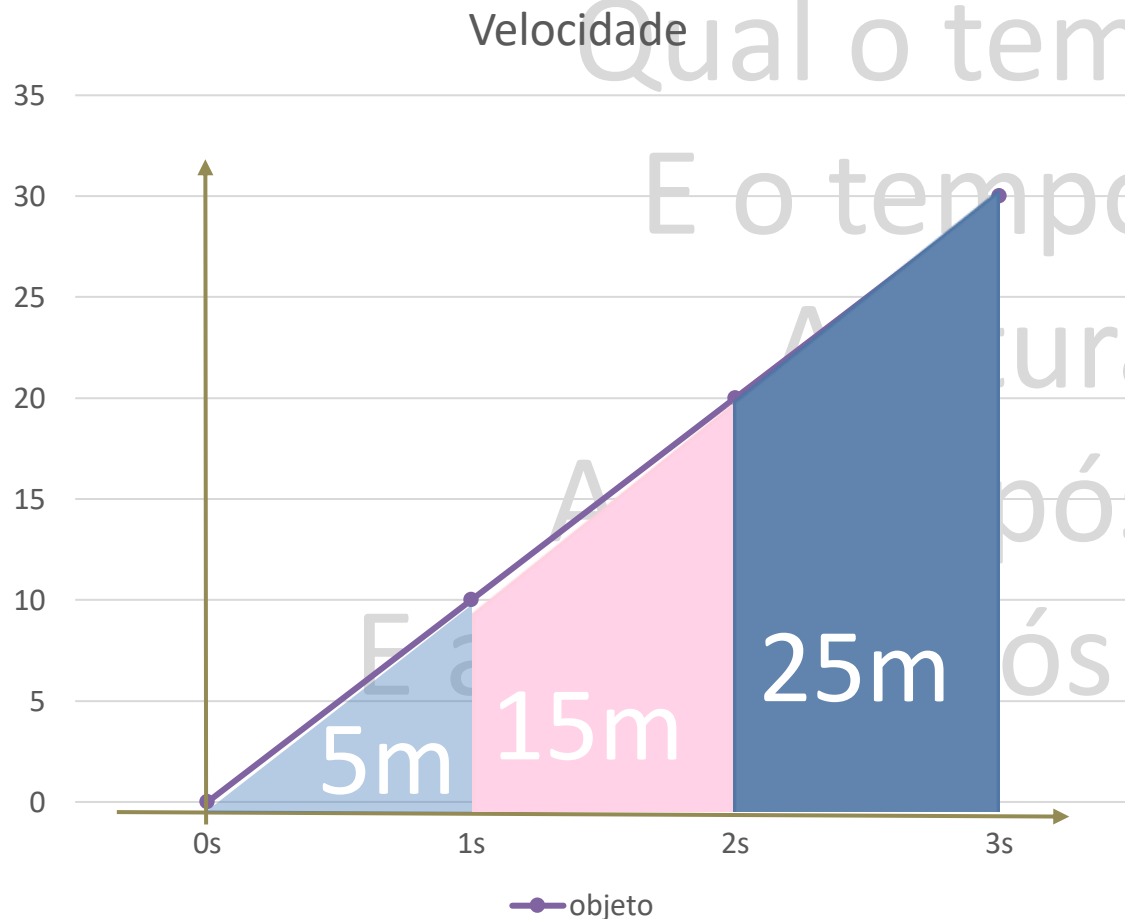
Qual o tempo de subida?

E o tempo de descida?

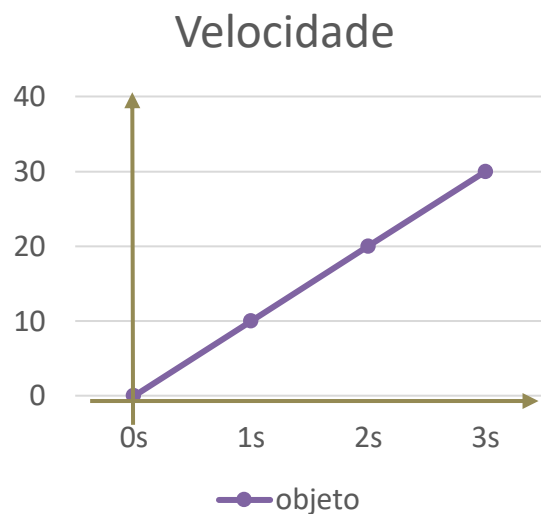
Qual a altura máxima?

Qual a altura após 1s de subida?

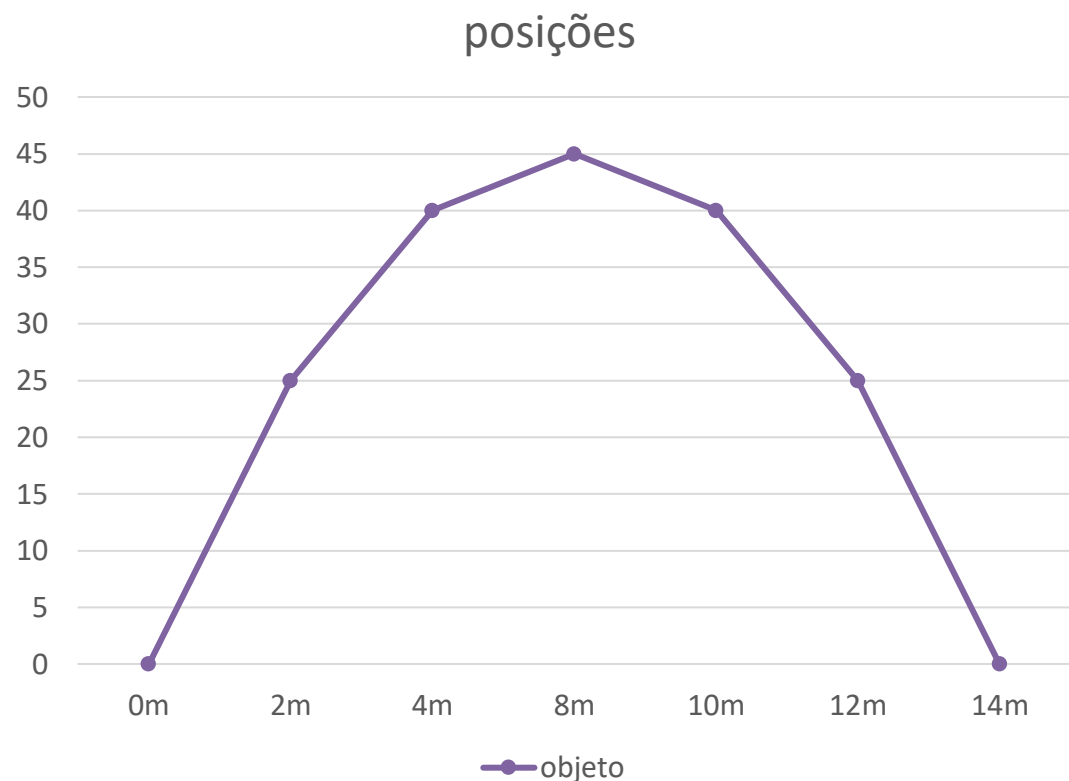
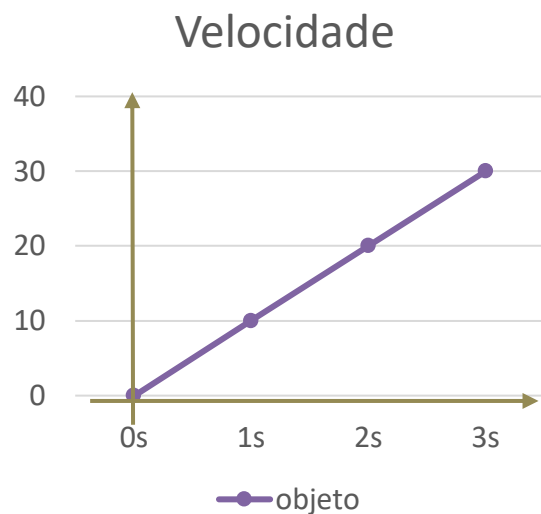
Qual a altura após 4s do lançamento?

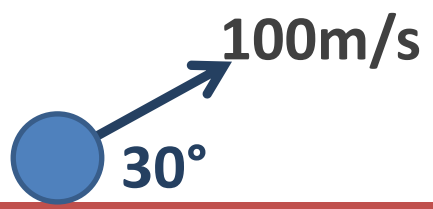


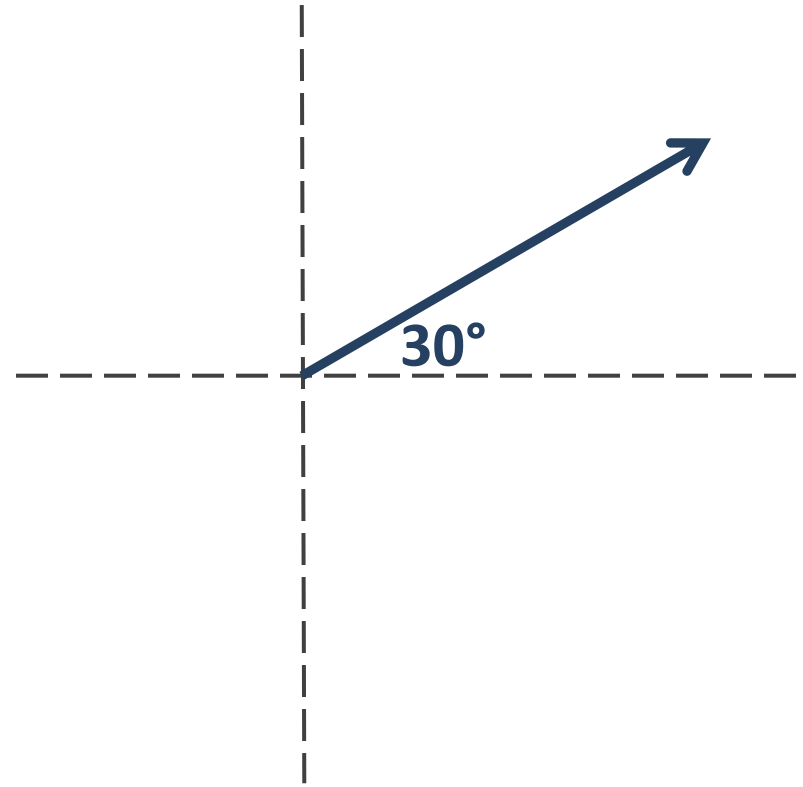
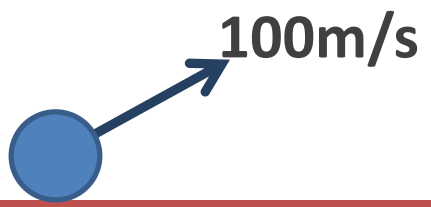
E se, ao mesmo tempo que o objeto sobe (por 3s), ele também se deslocar para a direita com 2m/s

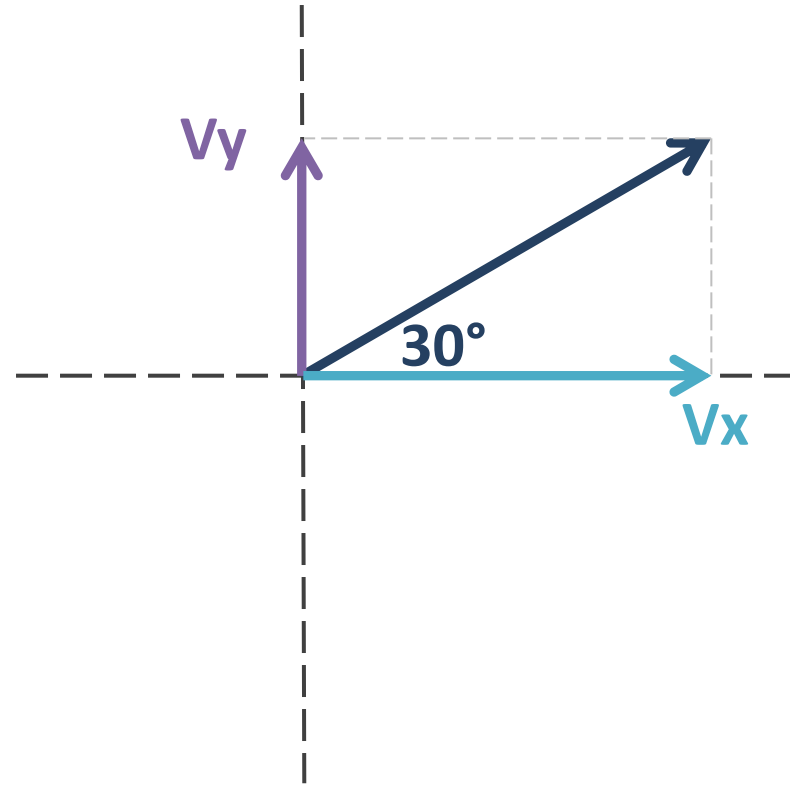
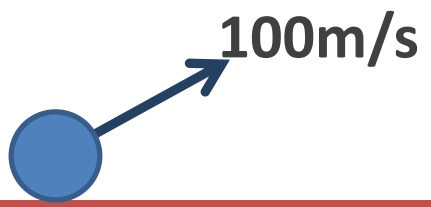


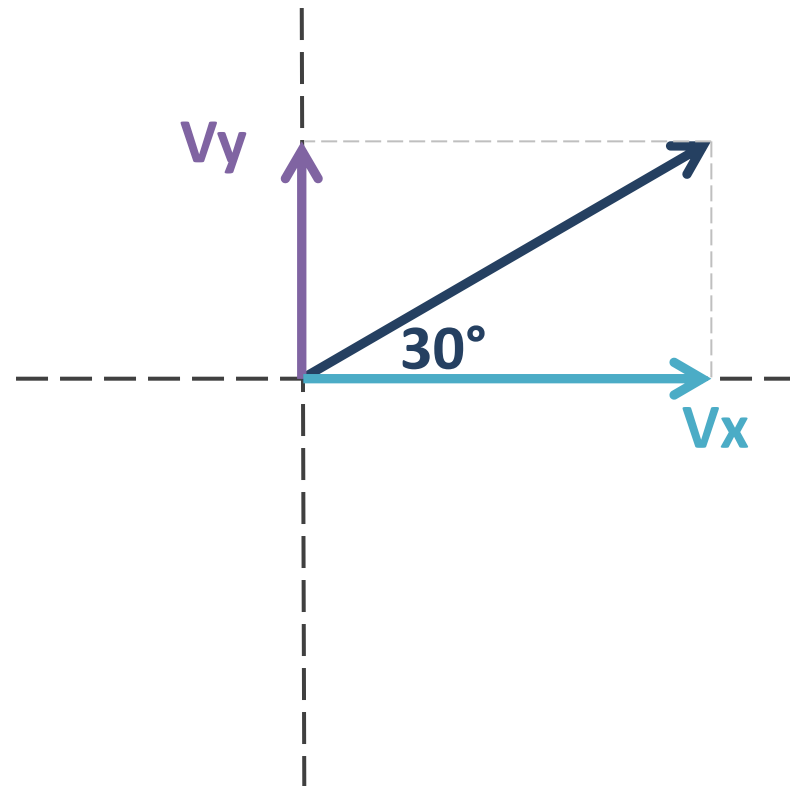
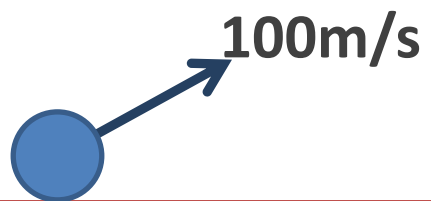
E se, ao mesmo tempo que o objeto sobe (por 3s), ele também se deslocar para a direita com 2m/s





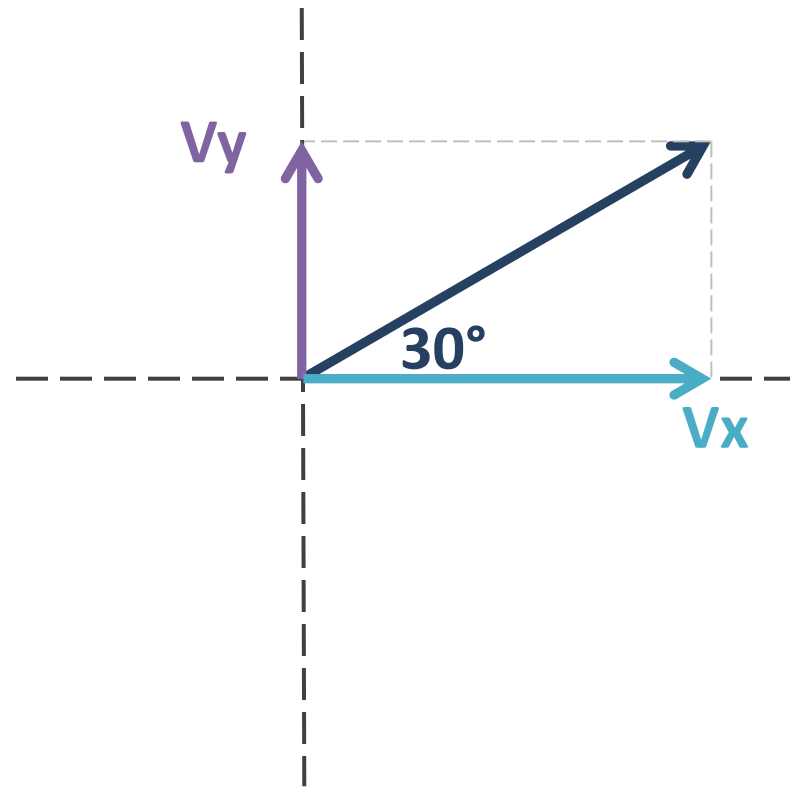
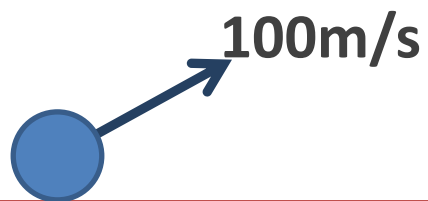






$$\text{sen}\theta = \frac{co}{h}$$

$$\text{cos}\theta = \frac{ca}{h}$$

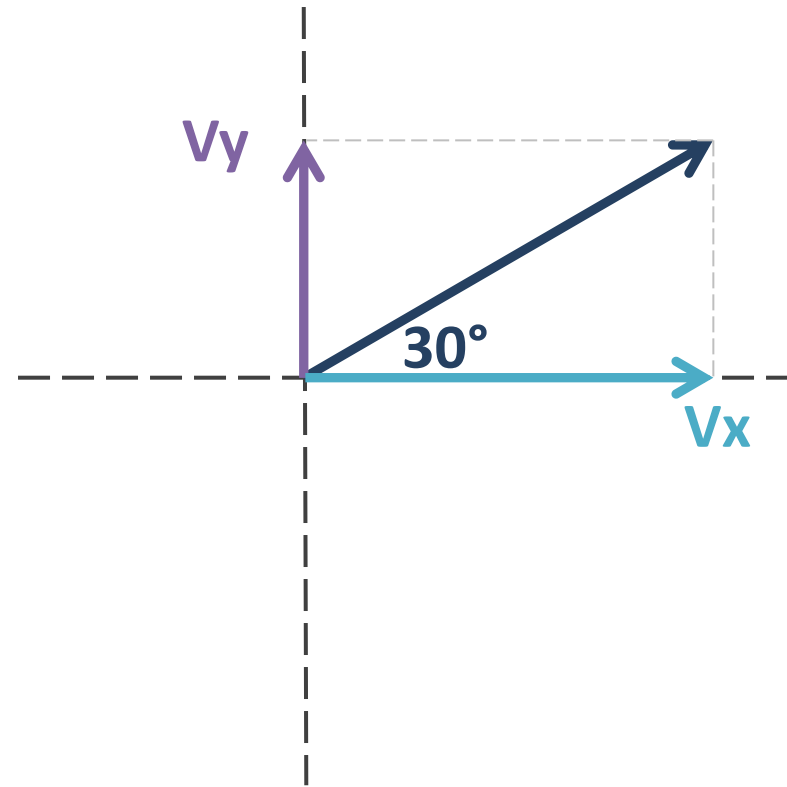
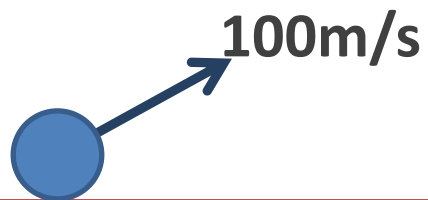


$$\text{sen}\theta = \frac{co}{h}$$

$$\text{sen}30 = \frac{V_y}{V}$$

$$\text{cos}\theta = \frac{ca}{h}$$

$$\text{cos}30 = \frac{V_x}{V}$$



$$\text{sen}\theta = \frac{co}{h}$$

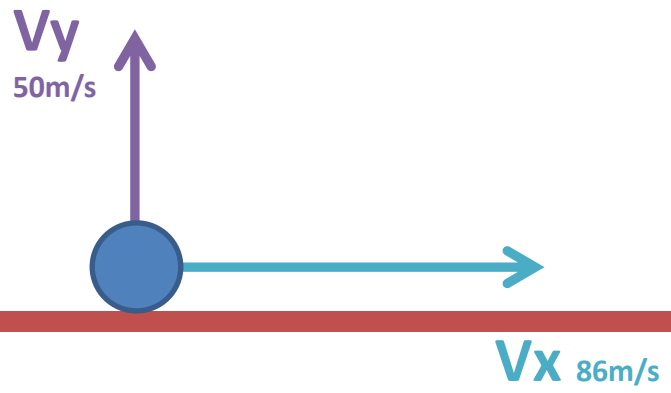
$$\text{sen}30 = \frac{Vy}{V}$$

$$Vy = 50\text{m/s}$$

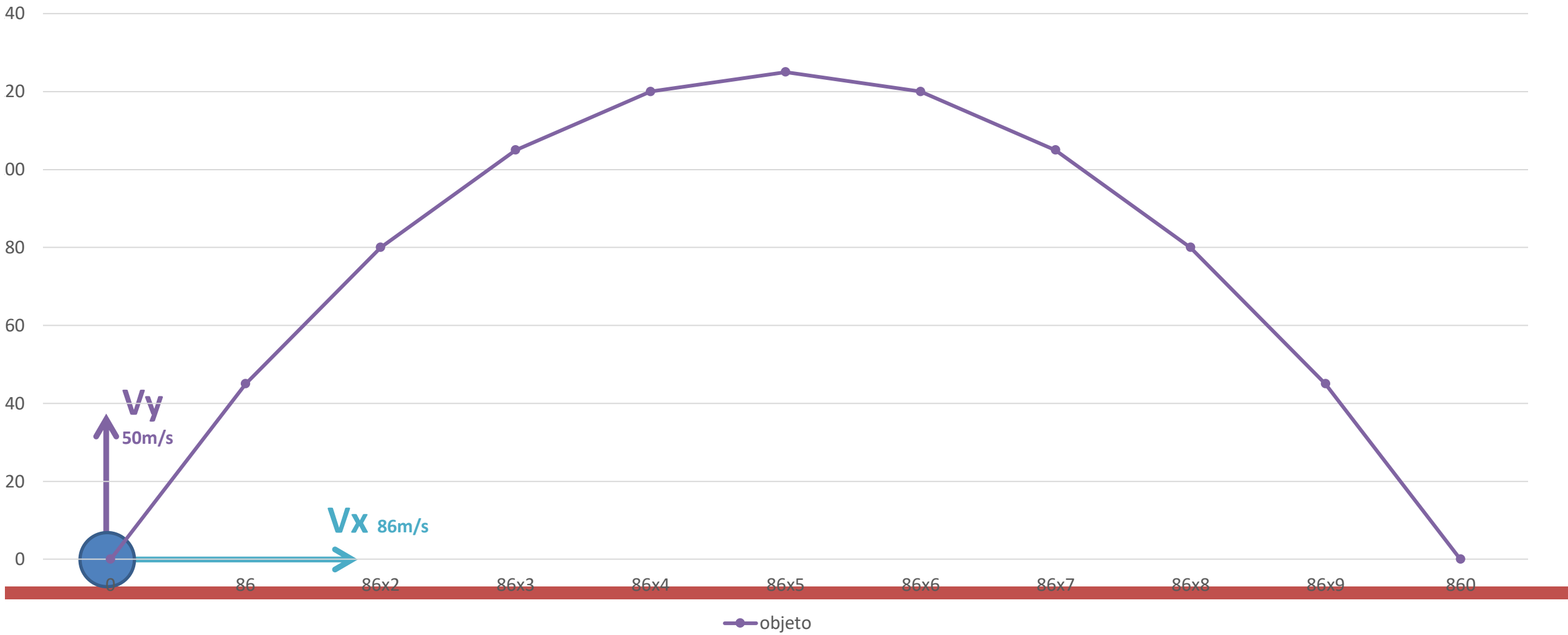
$$\text{cos}\theta = \frac{ca}{h}$$

$$\text{cos}30 = \frac{Vx}{V}$$

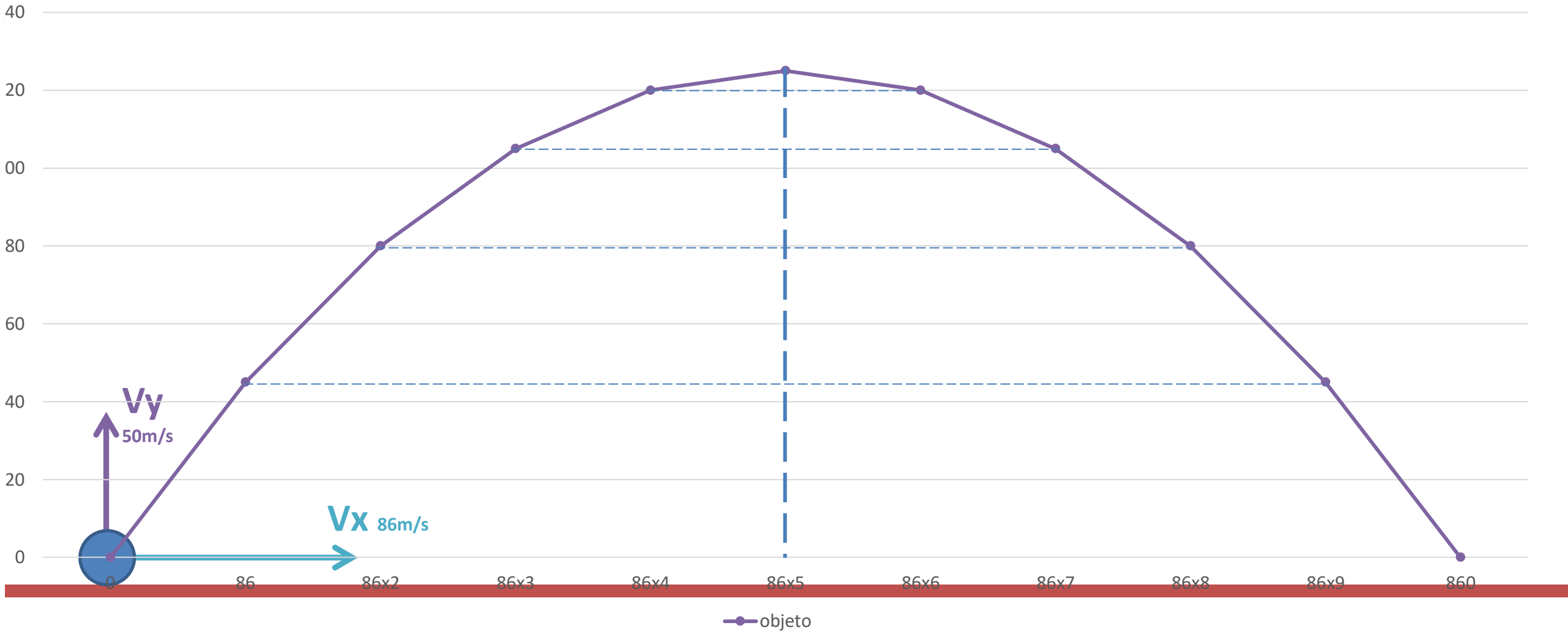
$$Vx = 86\text{m/s}$$



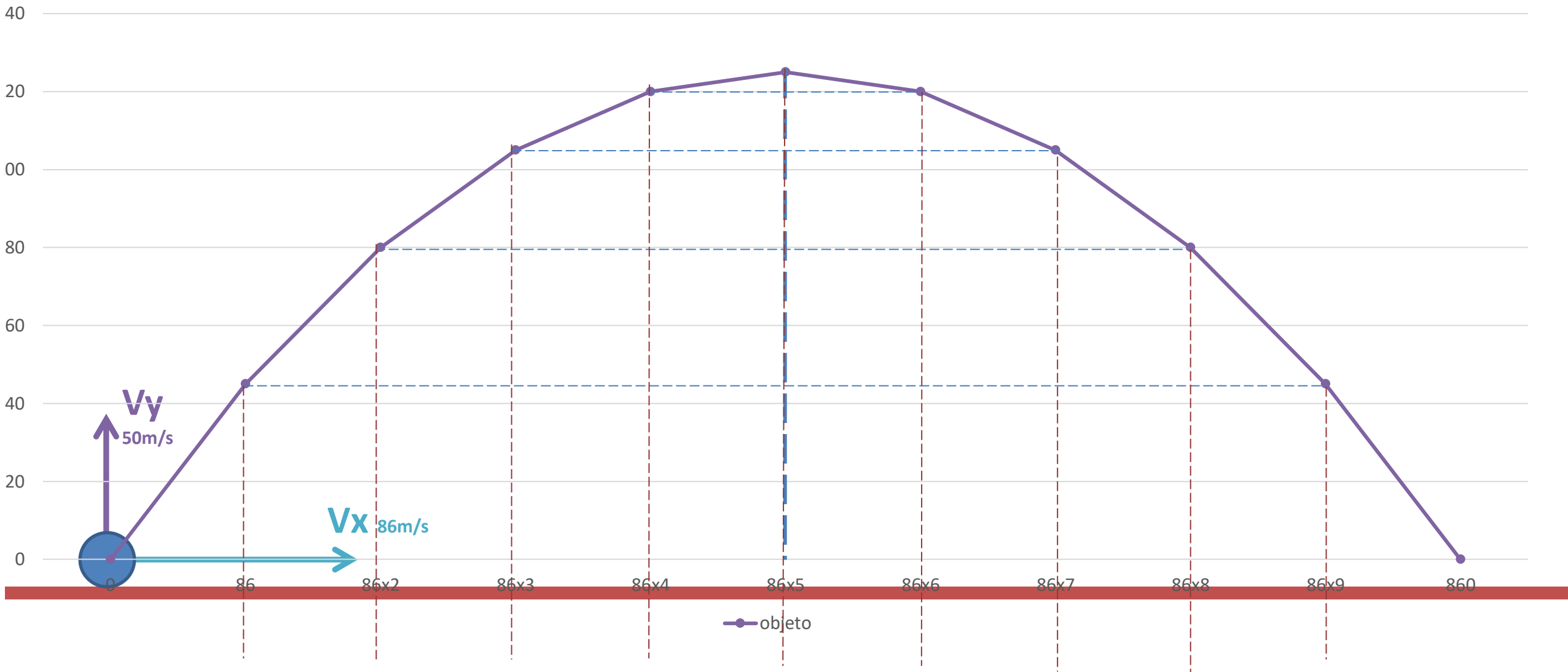
posições



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Composição de movimentos

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