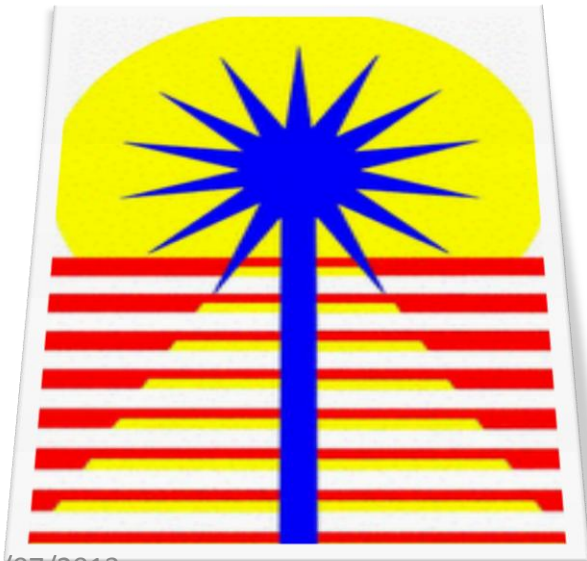


Velocidades Relativas

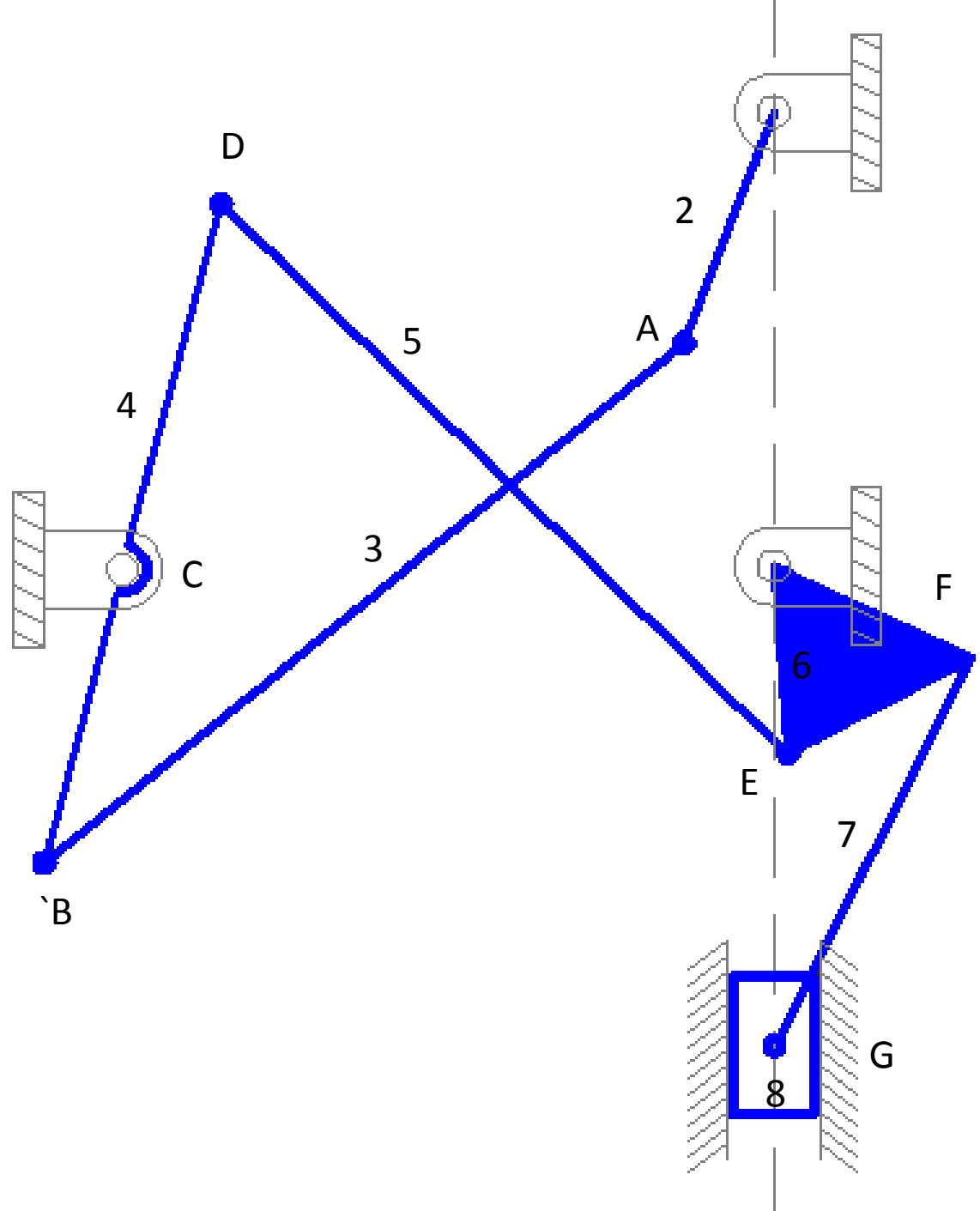
(Cinema de Velocidades)



Problema Resuelto #7

Prof. Charles Delgado

Problema:
Determinar la
Velocidad del
punto G si
 $n_2 = 200$ rpm
en sentido
antihorario



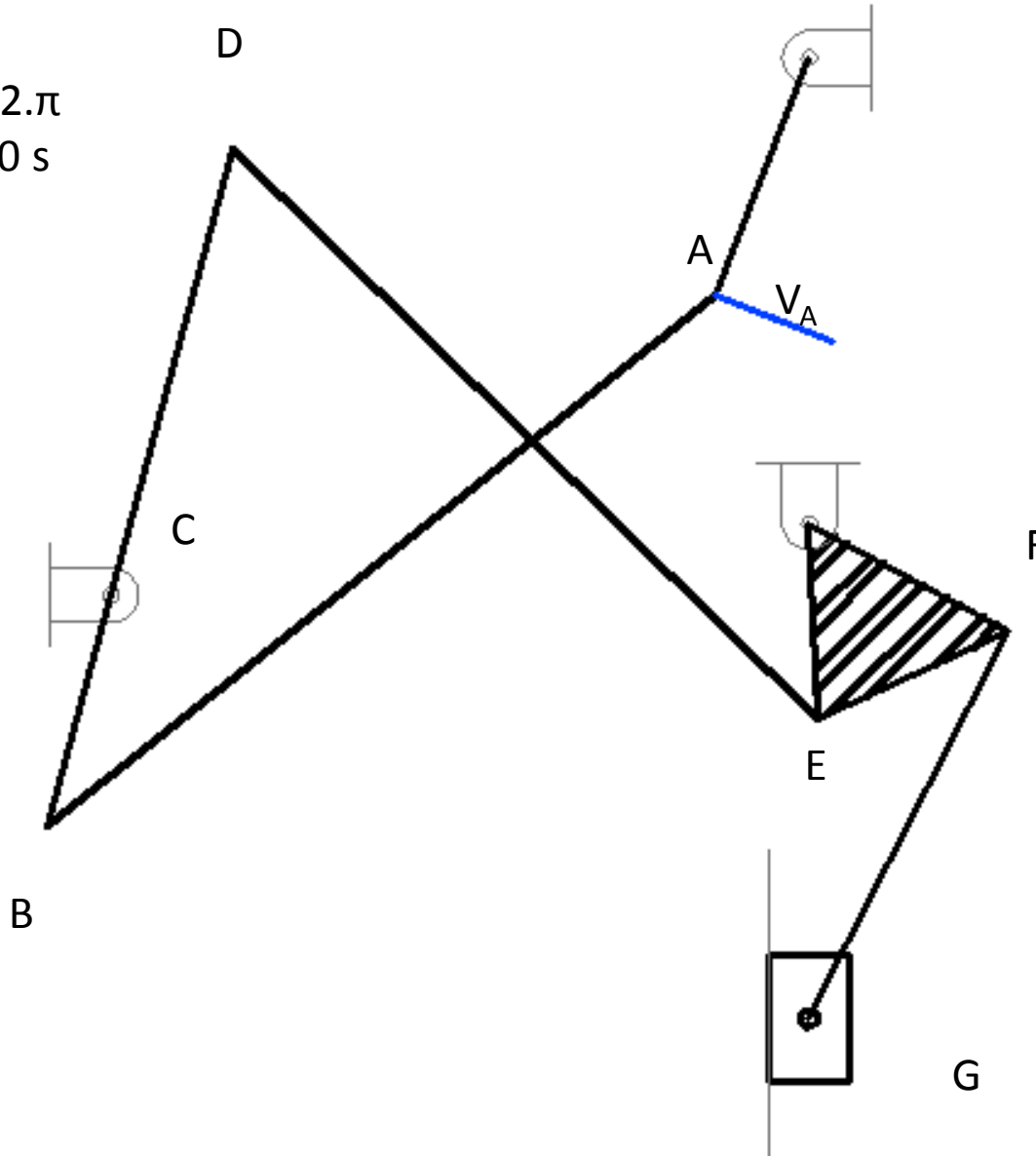
Velocidad Inicial

$$V_A = \omega_2 \times r_2$$

$$\omega_2 = 200 \text{ rev/min} \times 2\pi \text{ rad/1 rev} \times 1 \text{ min/60 s}$$

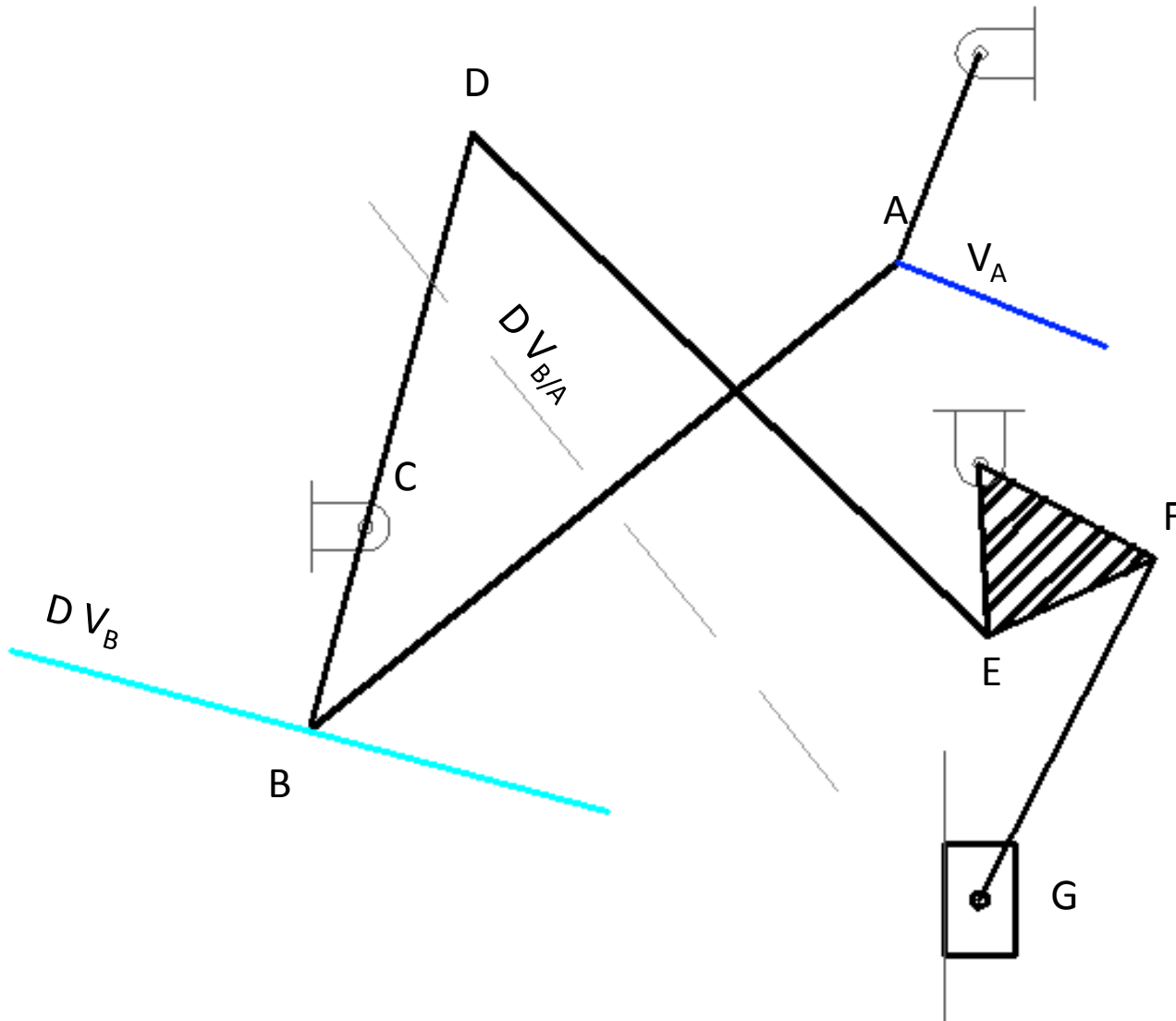
$$\omega_2 = 20.94 \text{ rad/s}$$

$$K_v = V_A / \mathbf{10 \text{ cm}}$$

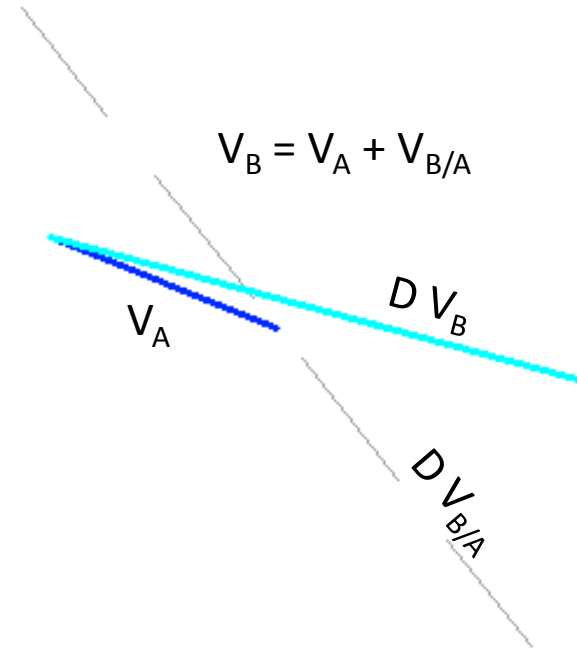
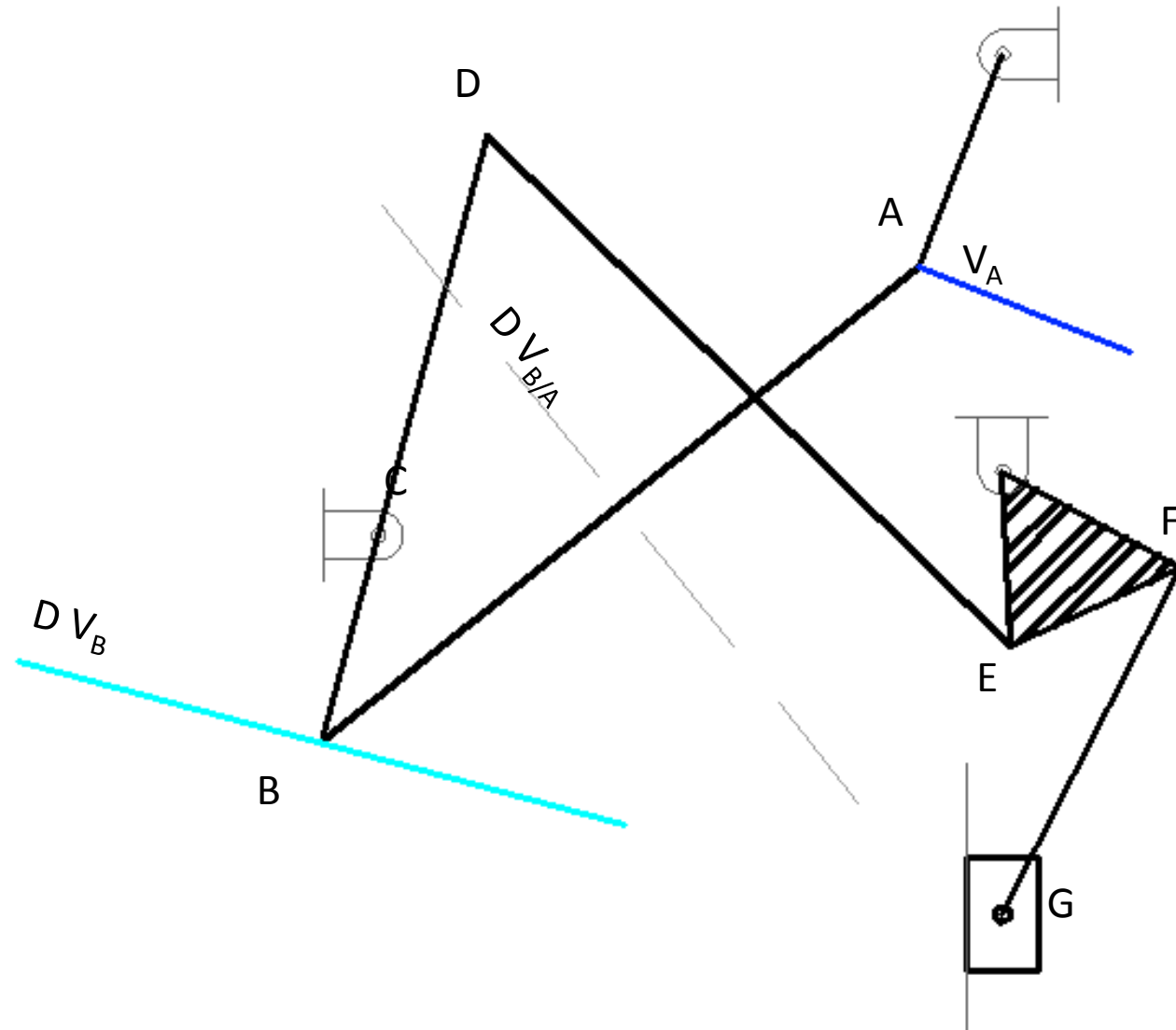


D **MDS** **D**

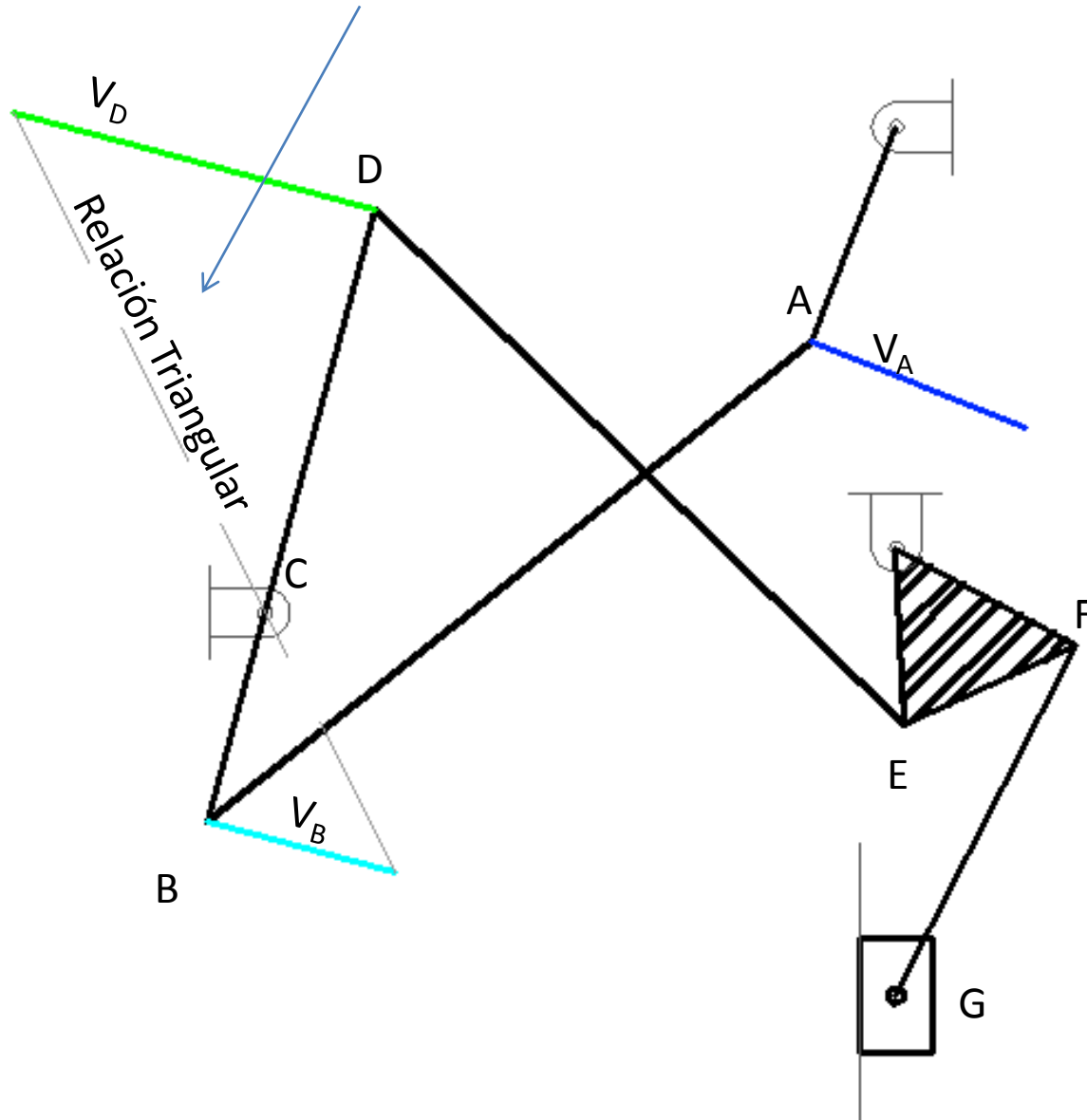
$$V_B = V_A + V_{B/A}$$



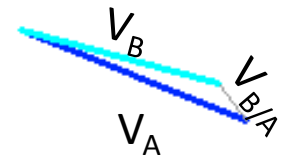
Cinema



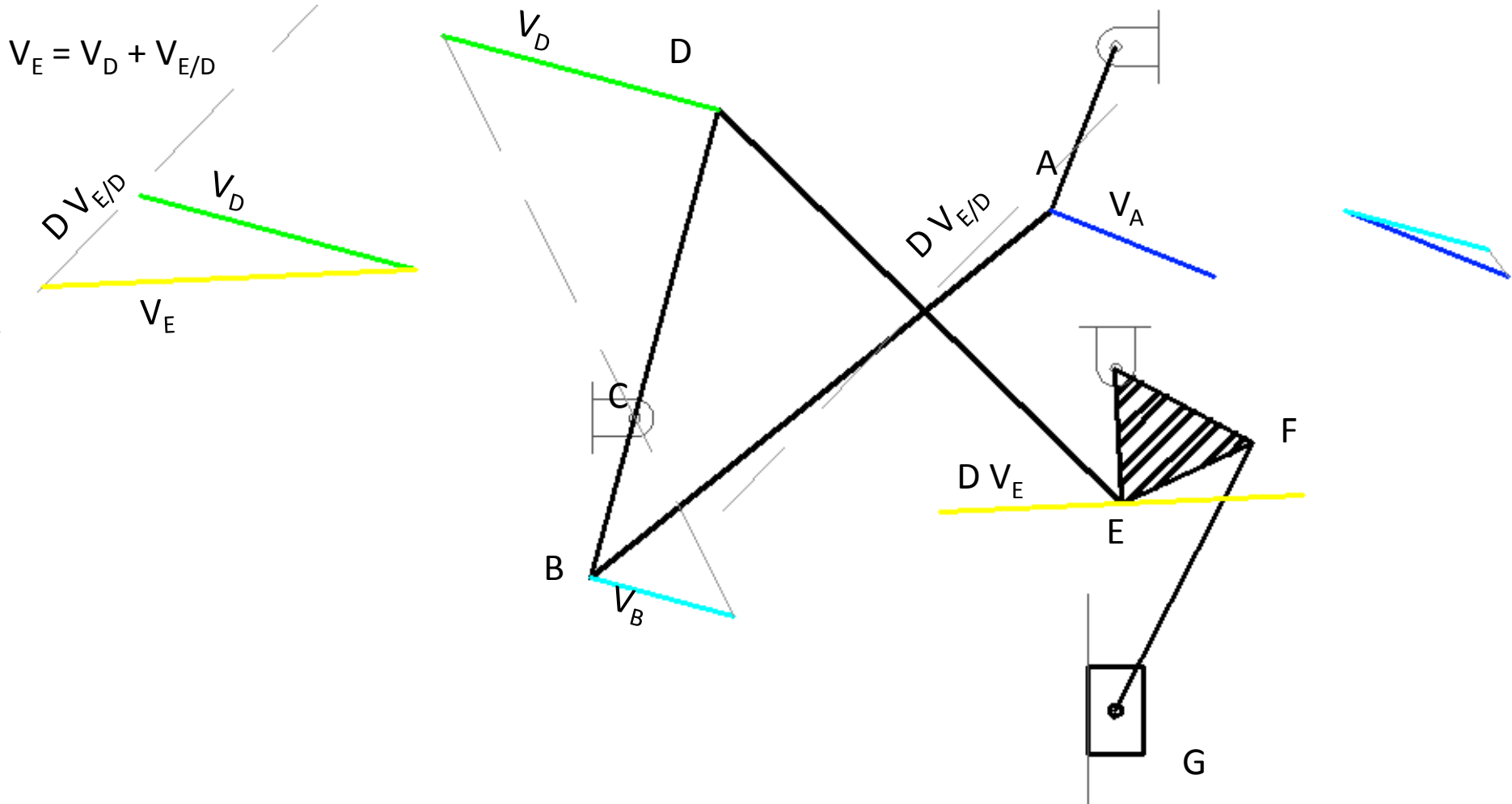
Relación Triangular



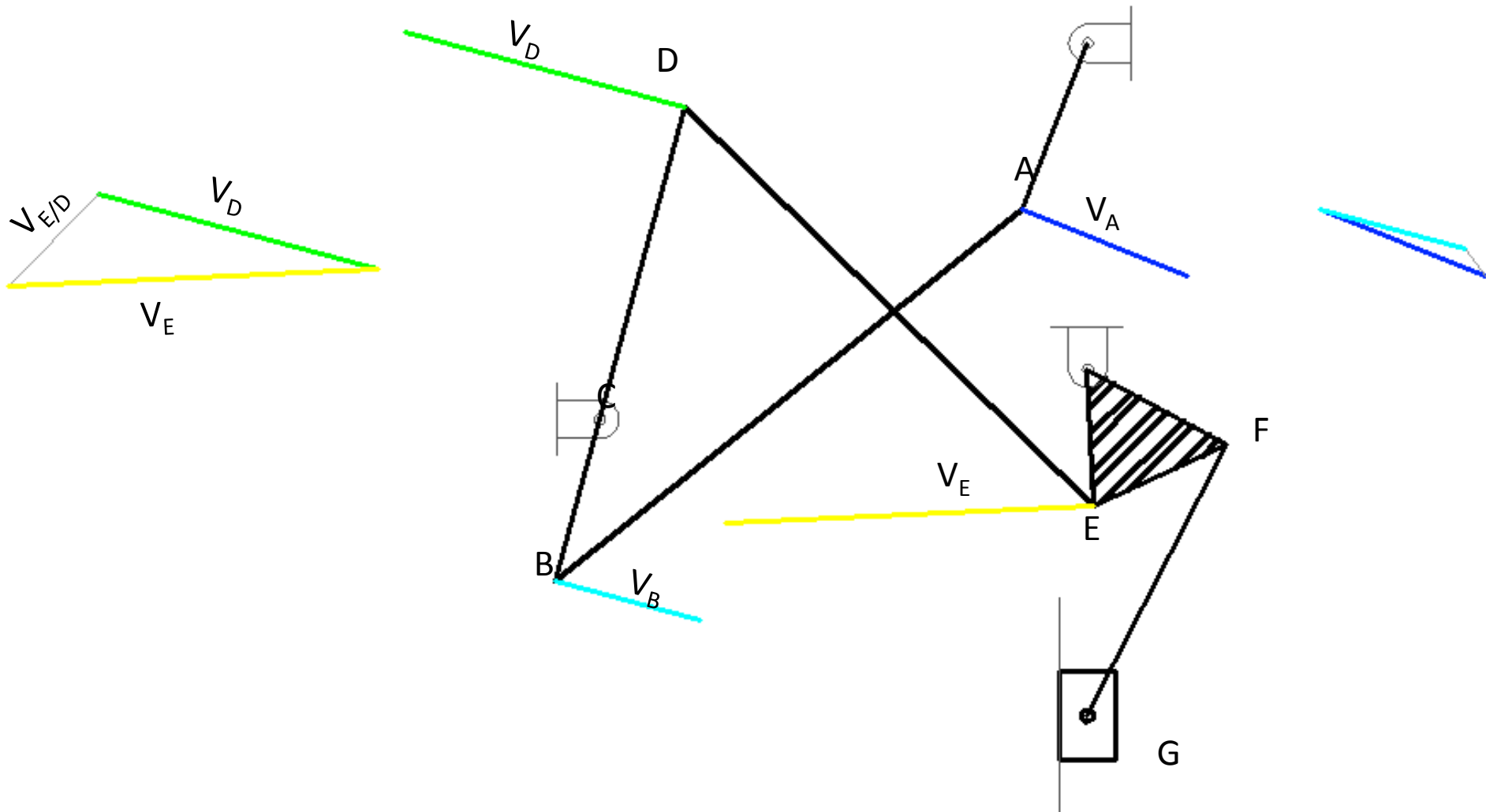
$$V_B = V_A + V_{B/A}$$



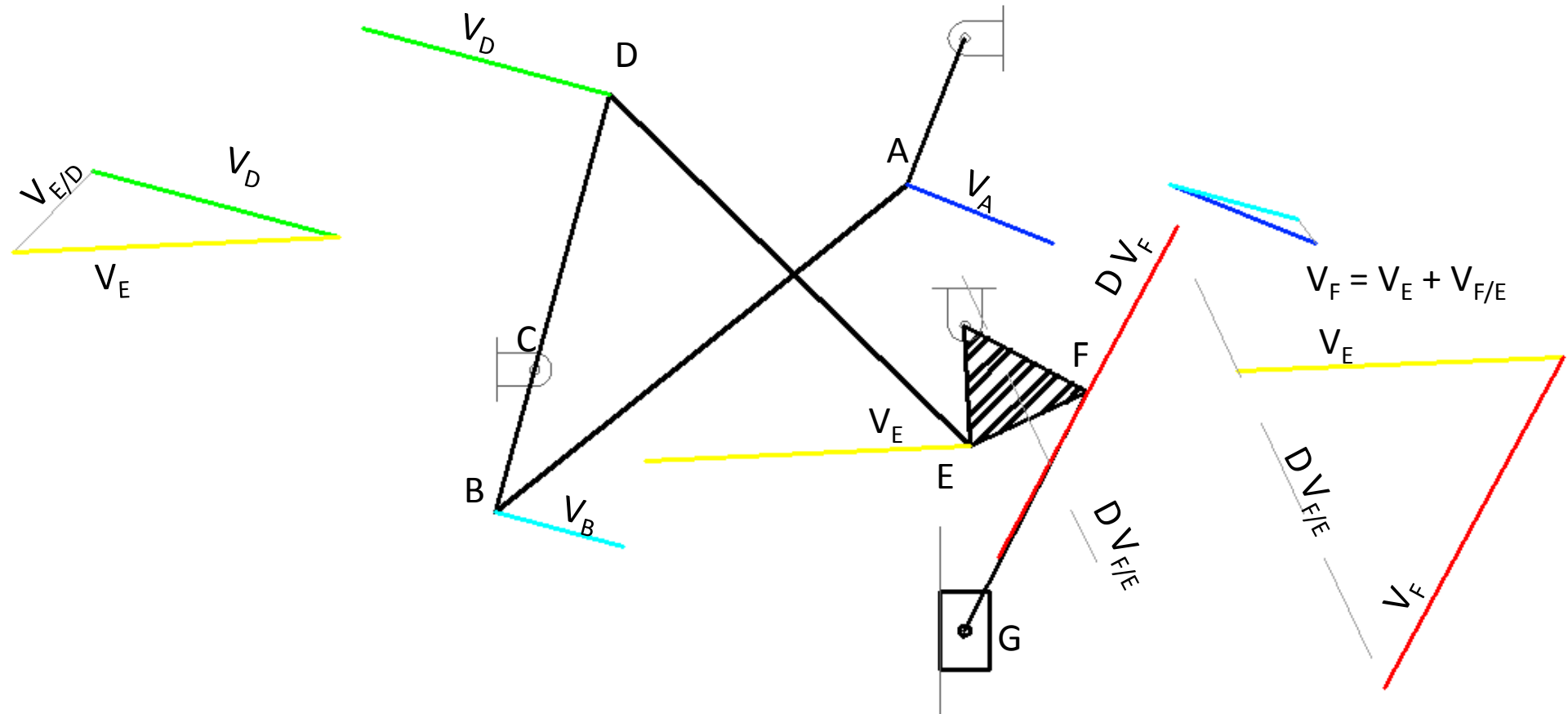
Cinema de Velocidades



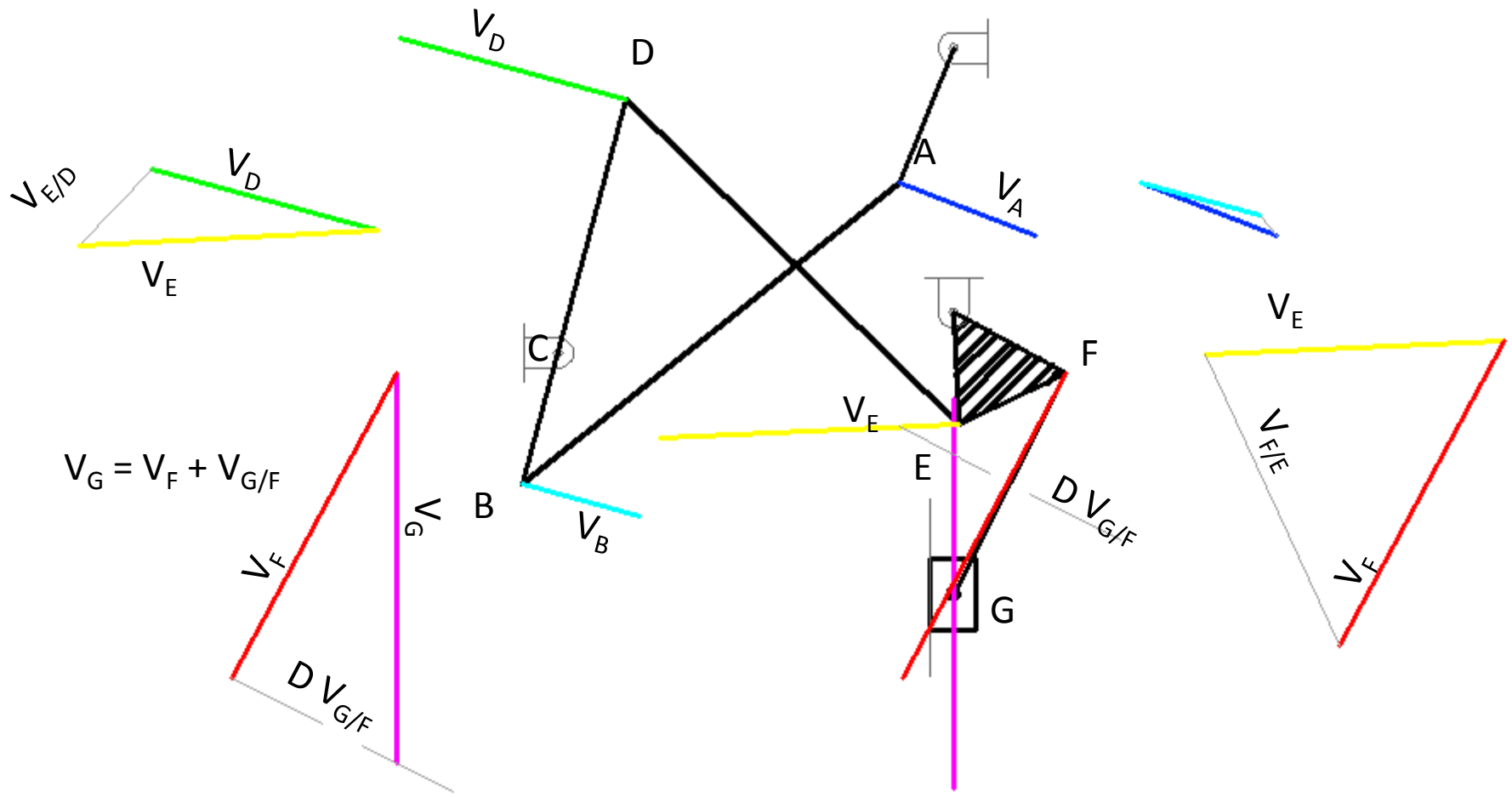
Representación de los Vectores de Velocidades



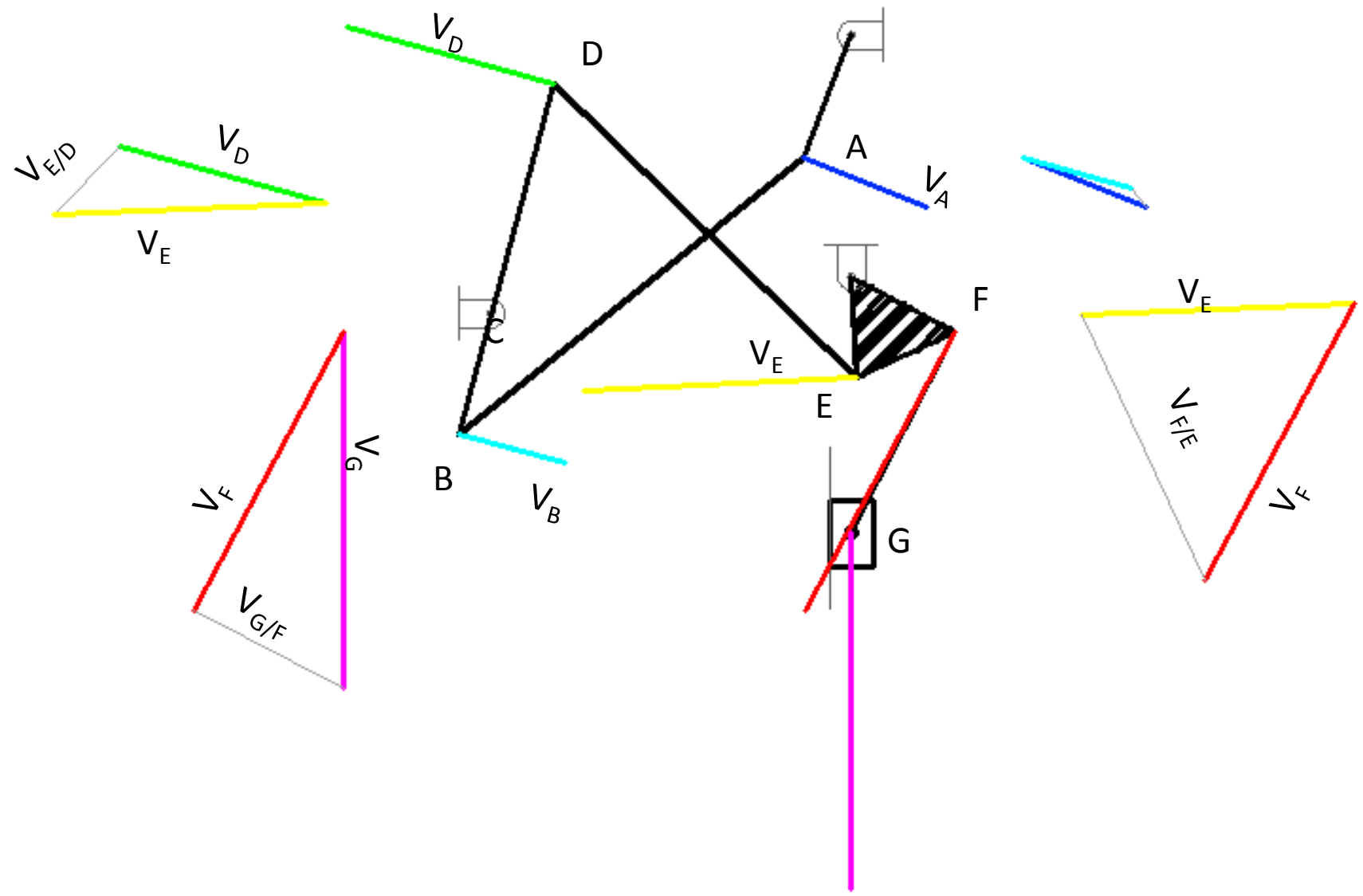
Cinema de Velocidades



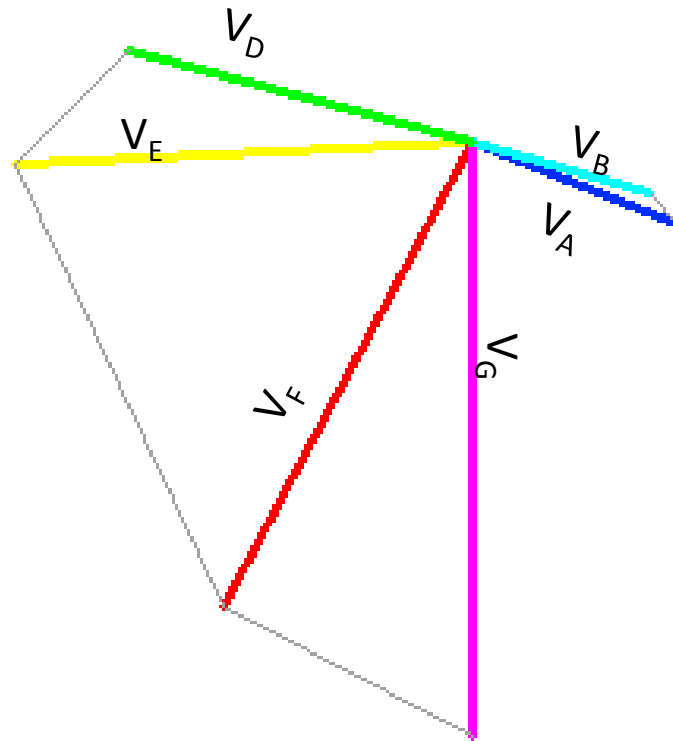
Cinema de V_F



Ubicación de los Vectores



Cinema del Mecanismo



Resultados

