	Datos	Formula	Conversión
①	V = 850 km/h T = ? D = 140 mt	$T = \frac{D}{V}$	$T = \frac{140 \text{ mt}}{850 \text{ Km/h}} = 0.16 \text{ seg.}$

② $V_1 = 40$ Km/hr
$V_2 = 60$ Km/hr
$V_3 = 80$ Km/hr
$T = 4$ Hrs
$D = ?$

$D = V \cdot T$

40 Km/hr • 4 hr = 160 Km
4 hrs • 60 Km/hr = 240 Km
4 hrs • 80 Km/hr = 320 Km
720 Km

③ V = 100 millas/hr
D = 16 mt
T = ?

$T = \frac{D}{V}$

Convertir a Km → 100 millas/hr / 160.934 Km/hr

$T = \frac{16 \text{ mt}}{160.9 \text{ Km/hr}} = 0.09 \text{ seg.}$

④ V = ?
D = 8,835,000 mts
T = 9.31 hr

$V = \frac{D}{T}$

$V = \frac{8,835 \text{ Km}}{9.31 \text{ hr}} = 948.97 \text{ Km/h.}$

⑤ D = 8 Km
T = 12 min
V = ? km/h + mt/s

$t = 12 \text{ min} \frac{1 \text{ hr}}{60 \text{ min}}$

$t = 0.2 \text{ hr}$

$V = \frac{d}{t} = \frac{8 \text{ Km}}{0.2}$

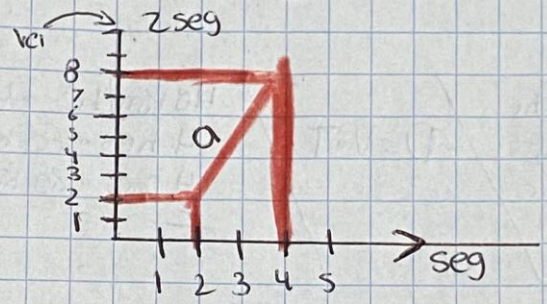
$V = \frac{40 \text{ Km}}{\text{hr}}$

$v = 11.11 \frac{\text{mt}}{\text{seg}}$

⑥ $t_i = 2$ seg
$t_f = 4$ seg
$V_i = 2$ mt/s
$V_f = 8$ mt/s

$$a = \frac{\Delta V}{\Delta t} = \frac{V_f - V_i}{t_f - t_i} = \frac{8\ mt/s - 2\ mt/s}{4\ seg - 2\ seg}$$

$$a = \frac{6\ mt/s}{2\ seg} = 3\ mt/s^2$$



⑦ $V_i = 8$ mt/s
$t = 3$ seg
$V_f = 20$ mt/s
$a = ?$
$d = ?$

$$a = \frac{V_f - V_i}{t} = \frac{20\ mt/s - 8\ mt/s}{3\ seg}$$

$a = 4\ mt/s^2$
$d = 1/2\ (V_i + V_f) = 1/2\ (8\ mt/s + 20\ mt/s)\ 3\ seg$
$d = 42\ mt$