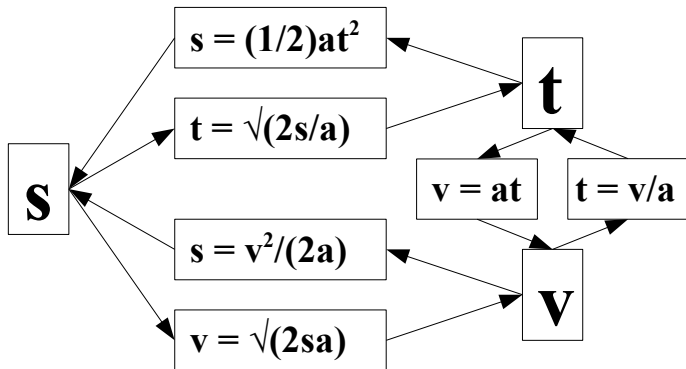


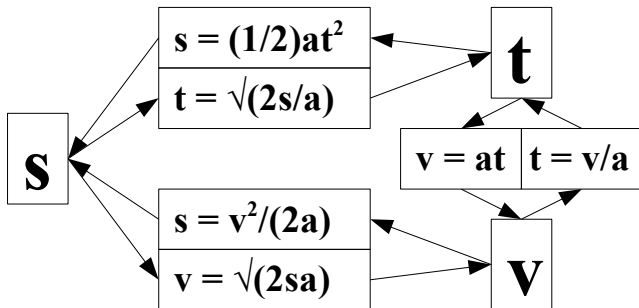
Qui seguono le varie stesure della mappa, dalla prima all'ultima.

Lo scopo e' mostrare che non riesce al primo colpo, ma occorre rielaborare piu' volte, sia per il contenuto che per la forma.

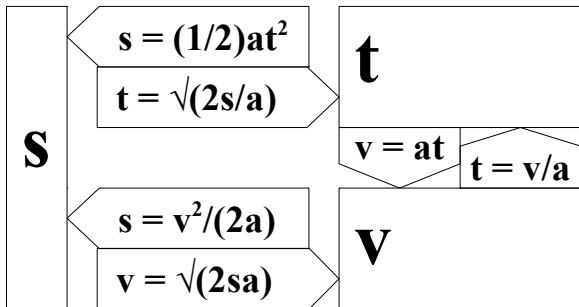
$$\text{MAK } v_0 = 0$$



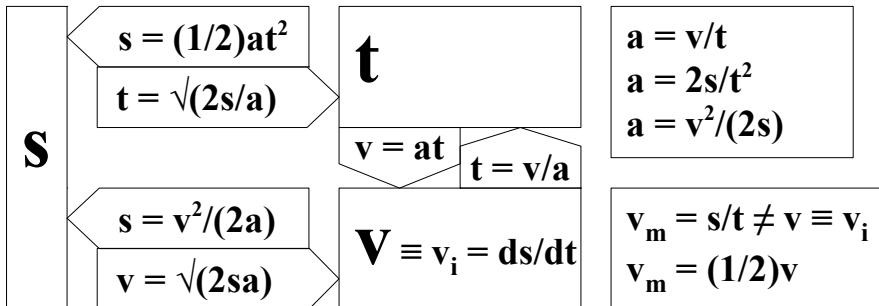
$$\text{MAK } v_0 = 0$$



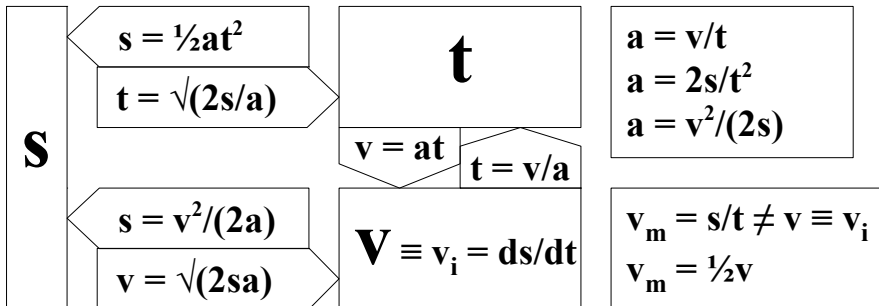
$$\text{MAK } v_0 = 0$$



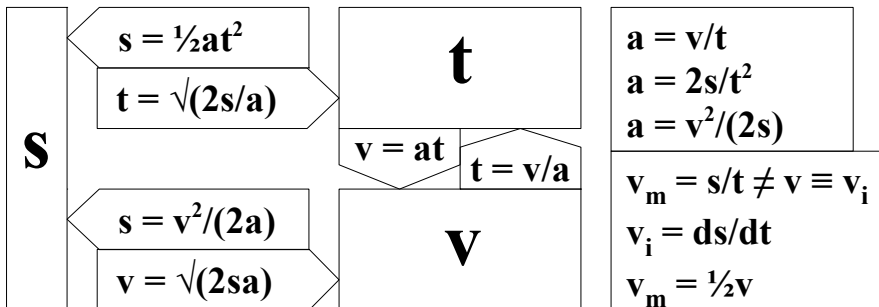
MAK $v_0 = 0$



MAK $v_0 = 0$



MAK $v_0 = 0$



Per ragioni legate alla formulazione della dinamica, per cercare un insegnamento integrato di cinematica e dinamica

$$\mathbf{a} = \mathbf{v}^2/(2\mathbf{s})$$

$$\mathbf{s} = \mathbf{v}^2/(2\mathbf{a})$$

sono riscritte in modo da richiamare l'energia cinetica.

Andrea Farusi fa prima la dinamica e poi la cinematica.

MAK $v_0 = 0$. $a=k$ s t v = var

S	$s = \frac{1}{2}at^2$ $t = \sqrt{(2s/a)}$	t $v = at$ $t = v/a$	$a = v/t$ $a = 2s/t^2$ $a = \frac{1}{2}v^2/s$
	$s = \frac{1}{2}v^2/a$ $v = \sqrt{(2sa)}$	v	$v_m = s/t \neq v \equiv v_i$ $v_i = ds/dt$ $v_m = \frac{1}{2}v$

MVK. $v=k$ s t = var

S	$s = vt$ $t = s/v$	t	$v = s/t$

MAK $v_0 = 0$. $a=k$ s t $v=var$

S	$s = \frac{1}{2}at^2$ $t = \sqrt{(2s/a)}$	t	$a = v/t$ $a = 2s/t^2$ $a = \frac{1}{2}v^2/s$
	$s = \frac{1}{2}v^2/a$ $v = \sqrt{(2sa)}$	$v = at$ $t = v/a$ v	$v_m = s/t \neq v \equiv v_i$ $v_i = ds/dt$ $v_m = \frac{1}{2}v$

MVK. $v=k$ s $t=var$

S	$s = vt$ $t = s/v$	t	$v = s/t$

Elevamento al
quadrato fatto
col carattere
apposito.
Preferisco html

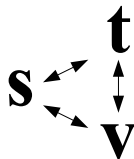
MAK $v_0 = 0$. $a=k$ s t $v = \text{var}$

S	$s = \frac{1}{2}at^2$ $t = \sqrt{(2s/a)}$	t	$a = v/t$ $a = 2s/t^2$ $a = \frac{1}{2}v^2/s$
	$s = \frac{1}{2}v^2/a$ $v = \sqrt{(2sa)}$	$v = at$ $t = v/a$ v	$v_m = s/t \neq v \equiv v_i$ $v_i = ds/dt$ $v_m = \frac{1}{2}v$

MVK. $v=k$ s $t = \text{var}$

S	$s = vt$ $t = s/v$	t	$v = s/t$

(s,t,v)



Introduzione del grafico.

MAK $v_0 = 0$. $a=k$ s t $v = \text{var}$

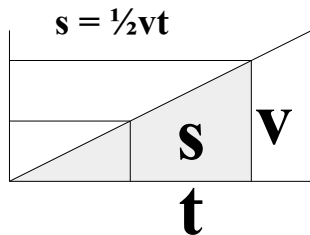
S	$s = \frac{1}{2}at^2$	t	$a = v/t$
	$t = \sqrt{(2s/a)}$		$a = 2s/t^2$
		$v = at$	$a = \frac{1}{2}v^2/s$
		v	
	$s = \frac{1}{2}v^2/a$		$v_m = s/t \neq v \equiv v_i$
	$v = \sqrt{(2sa)}$		$v_i = ds/dt$
			$v_m = \frac{1}{2}v$

(s,t,v)



MVK. $v=k$ s $t = \text{var}$

S	$s = vt$	t	$v = s/t$
	$t = s/v$		



MAK $v_0 = 0$. $a = k$ $s \ t \ v = \text{var}$

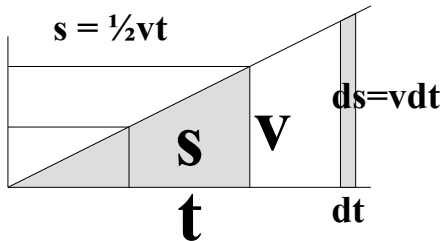
S	$s = \frac{1}{2}at^2$	t	$a = v/t$
	$t = \sqrt{(2s/a)}$		$a = 2s/t^2$
		$v = at$	$a = \frac{1}{2}v^2/s$
		v	$v_m = s/t \neq v \equiv v_i$
	$s = \frac{1}{2}v^2/a$		$v_i = ds/dt$
	$v = \sqrt{(2sa)}$		$v_m = \frac{1}{2}v$

(s,t,v)



MVK. $v = k$ $s \ t = \text{var}$

S	$s = vt$	t	$v = s/t$
	$t = s/v$		



MAK $v_0 = 0$. $a = k$ s t $v = \text{var}$

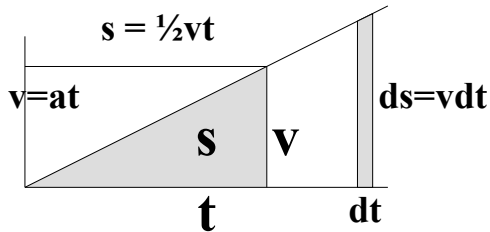
S	$s = \frac{1}{2}at^2$	t	$a = v/t$
	$t = \sqrt{(2s/a)}$		$a = 2s/t^2$
		$v = at$	$a = \frac{1}{2}v^2/s$
		$t = v/a$	
	$s = \frac{1}{2}v^2/a$	v	$v_m = s/t \neq v \equiv v_i$
	$v = \sqrt{(2sa)}$		$v_i = ds/dt$
			$v_m = \frac{1}{2}v$

(s,t,v)



MVK. $v = k$ s $t = \text{var}$

S	$s = vt$	t	$v = s/t$
	$t = s/v$		



MAK $v_0 = 0$. $a = k$ s t $v = \text{var}$

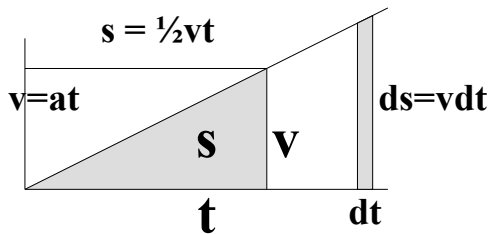
S	$s = \frac{1}{2}at^2$	t	$a = v/t$
	$t = \sqrt{(2s/a)}$		$a = 2s/t^2$
		$v = at$	$a = \frac{1}{2}v^2/s$
		$t = v/a$	
V	$s = \frac{1}{2}v^2/a$	V	$v_m = s/t \neq v \equiv v_i$
	$v = \sqrt{(2sa)}$		$v_i = ds/dt$
			$v_m = \frac{1}{2}v$

(s,t,v)



MVK. $v = k$ s $t = \text{var}$

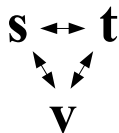
S	$s = vt$	t	$v = s/t$
	$t = s/v$		



MAK $v_0 = 0$. $a = k$ s t $v = \text{var}$

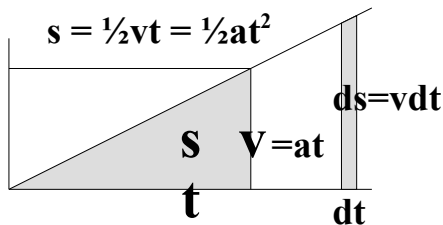
S	$s = \frac{1}{2}at^2$	t	$a = v/t$
	$t = \sqrt{(2s/a)}$		$a = 2s/t^2$
		$v = at$	$a = \frac{1}{2}v^2/s$
		$t = v/a$	
V	$s = \frac{1}{2}v^2/a$	V	$v_m = s/t \neq v \equiv v_i$
	$v = \sqrt{(2sa)}$		$v_i = ds/dt$
			$v_m = \frac{1}{2}v$

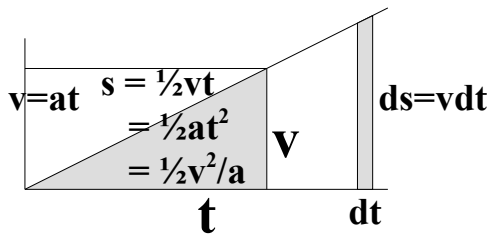
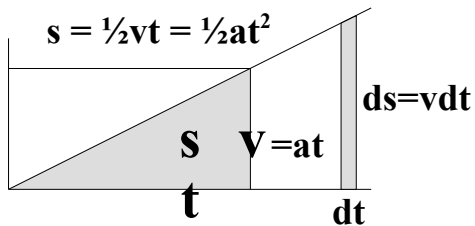
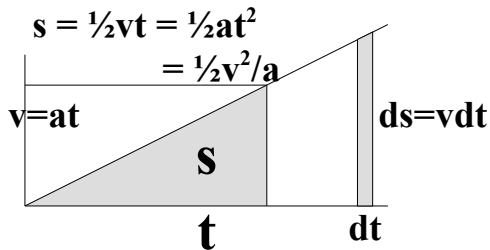
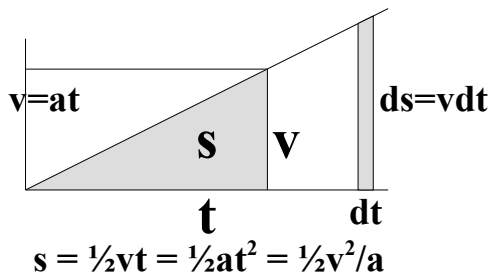
(s,t,v)



MVK. $v = k$ s $t = \text{var}$

S	$s = vt$	t	$v = s/t$
	$t = s/v$		





S

Tento di ...

**s t v sono variabili
a variabile costante**

Moto senza sobbalzi

MBK: $v_0 = 0$, $a_0 = 0$, $a = bt$, $b = da/dt$, $b = k$, $s \ t \ v \ a = \text{var}$

S

$$s = (1/6)bt^3$$

$$t = \sqrt[3]{(6s/b)}$$

V

$$v = \frac{1}{2}bt^2$$

$$t = \sqrt{(2v/b)}$$

$$v = \frac{1}{2}a^2/b$$

$$a = \sqrt{(2vb)}$$

t

$$a = bt$$

$$t = a/b$$

a

$$b = a/t$$

$$b = 2v/t^2$$

$$b = 6s/t^3$$

$$b = \frac{1}{2}a^2/v$$

$$b = \sqrt{((1/6)a^3/s)}$$

$$b = (2/9)v^3/s^2$$

$$a_m = v/t \neq a \equiv a_i$$

$$a_i = dv/dt$$

$$a_m = \frac{1}{2}a$$

$$s = (1/3)vt$$

$$s = (1/6)at^2$$

$$v = \frac{1}{2}at$$

spazio del moto = spazio percorso

tempo del moto = tempo trascorso

$d = d_i$ del

lunghezza

circonferenza