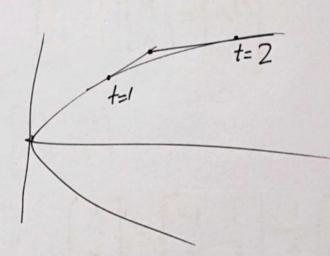
Porabola

$$y^2 = 2ax$$
  $x = at^2$   $y = 2at$ 

$$\frac{dy}{dx} = \frac{2a}{2at}$$

$$= \frac{1}{t}$$



$$\frac{y-2at}{x-at^2} = \frac{1}{t}$$

$$y^{2} + 2at^{2} = x - at^{2}$$

$$y^{2} + x = at^{2}$$

$$y^{2} + x = 4at^{2}$$

$$y^{3} = \begin{bmatrix} -1 & 1 \\ -2t & t \end{bmatrix}$$

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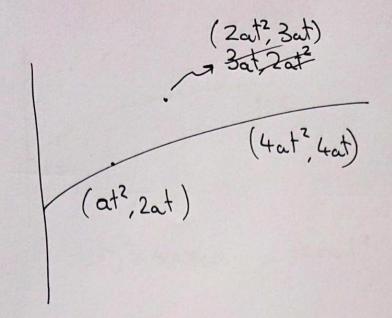
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$$x = at^2 (1-u)^2 + 4wat^2 (1-u)u) + 4at^2 u^2$$

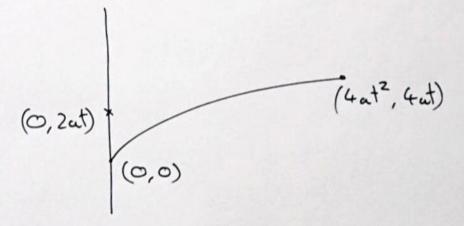
$$(1-u)^2u^2$$
: LMS:  $36w^2a^2t^2 + 16a^2t^2 = (36w^2 + 16)at^2$   
RMS:  $4(8w^2a^2t^2 + 8at^2)$ 

$$36\omega^{2}+16=32\omega^{2}+20$$
  
 $4\omega^{2}=4$   
 $\omega^{2}=1$ 

$$\frac{y-4at}{x-4at^2} = \frac{1}{2t}$$

$$\frac{y-tat}{0-4at^2} = \frac{1}{2t}$$

$$y-4\omega t = -2\alpha t$$
  
 $y = 2\alpha t$ 



$$num(x) = 4at^{2}u^{2}$$

$$num(y) = 4atw(1-u)u + 4atu^{2}$$

$$den = (1-u)^{2} + 2wu(1-u) + u^{2}$$

LMS: 16a2+2u2

RHS: 4at 4a(4at2)

16a2+2w2 = 16a2+2

w=1