

Point 1
 x1 607
 y1 421
Point 2
 x2 389
 y2 422
size 218.002294

Point 3
 x1 430
 y1 285
Point 2
 x2 389
 y2 422
size 143.003496

Point 1
 x1 607
 y1 421
Point 3
 x2 430
 y2 285
size 223.21514

cos 2 = 0.291
2 = 73.08

cos 1 = 0.790
1 = 37.80

cos 3 = 0.356
3 = 69.12

control
180.00

Cosine theorem: In any triangle ABC is:

$$a^2 = b^2 + c^2 - 2bc \cos a$$

$$b^2 = a^2 + c^2 - 2ac \cos b$$

$$c^2 = a^2 + b^2 - 2ab \cos g$$

the square of the triangle is equal to the sum of the squares of the other parties

reduced by twice the product of these parties and the cosine of the angle cordoned them.

distance

	x	y
Point1	988	598
Point2	889	741

d= 173.9 pixel 58.99 cm
 1 pixel 0.339186 cm

calibration

	x	y
Point1	720	584
Point2	980	723

d= 294.8 pixlu 100 cm

time, speed

number of frames

8 .1/25

0.04

0.32 s

speed

$v=s/t$

1.84