Division: Junior / Senior

Team Name: Robats

Team School / Organization Name: Hocton High School Team Number: 2383-1

Unknown Task #2: Fence is NOT centered

- Describe how your team solves the unknown task #2 as mathematical as possible for a special "problem solving" award.
- Teams may use the computer to calculate numbers. However, cell phone cannot be used.
- The use of any electronic communication is strictly prohibited.

$$9 = +an^{-1}\left(\frac{20}{136.75}\right) = 90$$

$$95^{\circ}$$
 for calibration = 157.1°
 $1^{\circ} = \frac{167.1}{10} = 16.71^{\circ}$

for it all our stakes of each family

15cm 15cm 15cm back so.

The solution of the solution of

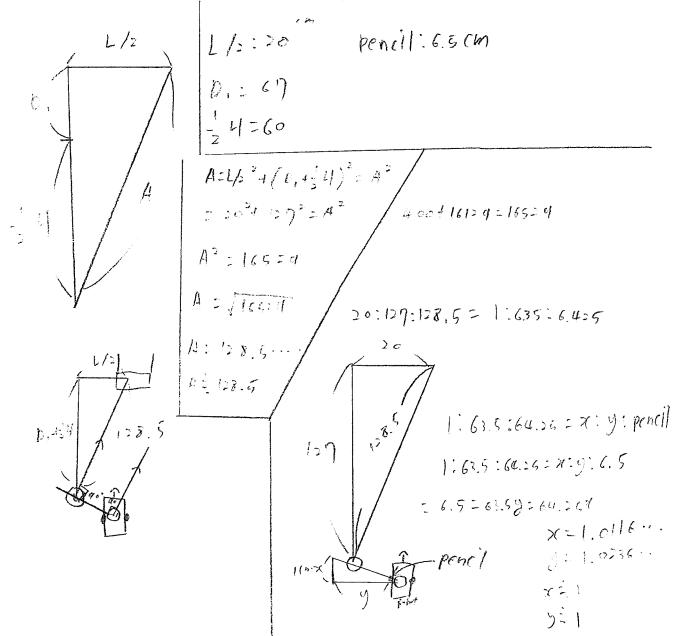
Division: Junior / Senior

Team Name: (RAS=1)

Team School / Organization Name: $K - U \le ROROT$ Team Number: 1687 - 3

Unknown Task #2: Fence is NOT centered

- Describe how your team solves the unknown task #2 as mathematical as possible for a special "problem solving" award.
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Division: Junior / Senior

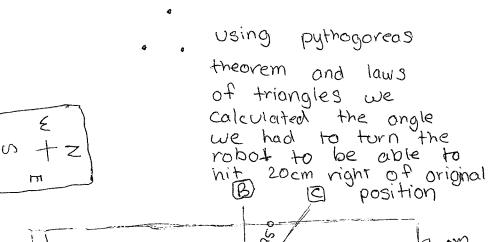
Team Name: Anything Works

-ego Legion Team Number: 2109-34

Team School / Organization Name: __

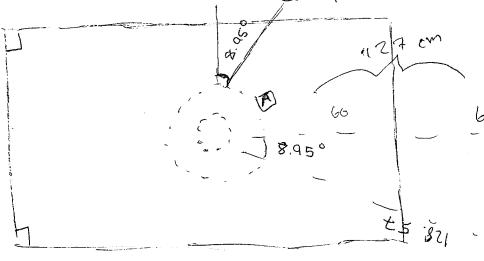
Unknown Task #2: Fence is NOT centered

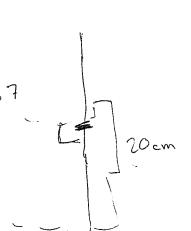
- Describe how your team solves the unknown task #2 as mathematical as possible for a special "problem solving" award.
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- The use of any electronic communication is strictly prohibited.



A = Robot turning (circle)
for hitting ball B = Original Hitting point

Cz Where we have to hit the boll for 20 cm adjustion





x = Tan (26)

a2 = b2 + c2 12 = 1272 + 202

a 2 128.57

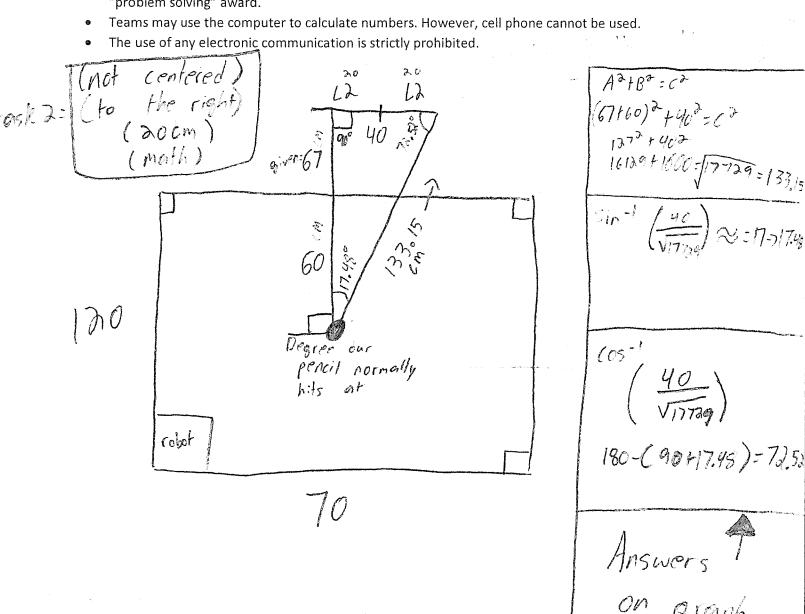
Division: Junior / Senior

Team Name:

Team School / Organization Name: Lego Legion

Unknown Task #2: Fence is NOT centered

Describe how your team solves the unknown task #2 as mathematical as possible for a special "problem solving" award.



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Division: Junior (Senior)

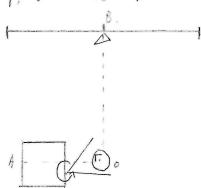
Team Name: PCM 5 - 7

Team School / Organization Name: Phi Ching Middle School Team Number: 28%) - 7

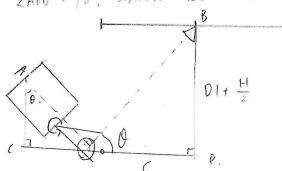
Unknown Task #2: Fence is NOT centered

- Describe how your team solves the unknown task #2 as mathematical as possible for a special "problem solving" award.
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In a normal sel-up, we have the car and the bottle as shown:



We could notice that ZAOB = 90°, which we have the following.



Using similar triangles. We could easily notice that Z(AO = ZBOP, hence by finding ZBOD, we could know how much the car have to turn:

$$tan O = \frac{BD}{0D} \frac{H}{2}$$

0 = tan - (201+ 11)

in the values (DI=67, H=72, (=20), we get

World Championship

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Division: Junior / Senior

Team Name:

Team School / Organization Name: King's Edge hall school earn Number: 2170-5

Unknown Task #2: Fence is NOT centered

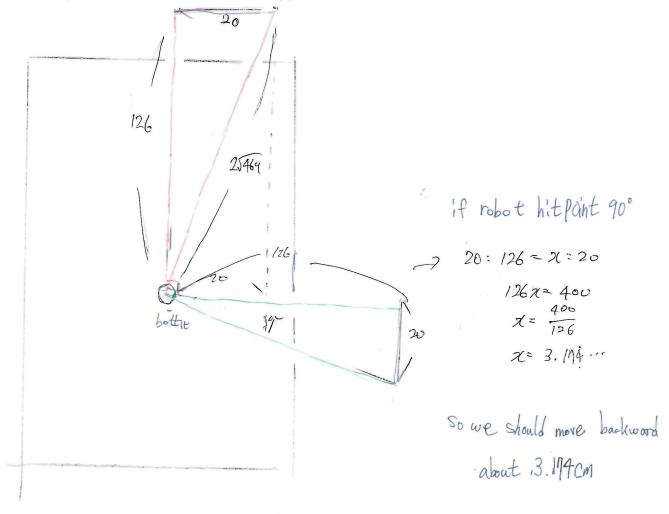
- Describe how your team solves the unknown task #2 as mathematical as possible for a special "problem solving" award.
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As no know, the center between point a required local A is zocm, Bis around 110 cm to 50% Cosa = B = 11363, 787 0.50 2787 0.647/6 Therefore the angle that our rebodic the book will be 750 The polistic was 900 between the D&B Part the Jan will go sage of Add-the 1950 for to robotic to het, the degree because A ord D will decrease 180 do - 780 = 120+3640 The robotic will had the ball by 12 degree to the lone B. Tarned to the motor, the left world Championship

Division: Junior / Senior	Tear	m Name: Heros	never die	
	n O C		Team Number:	

Unknown Task #2: Fence is NOT centered

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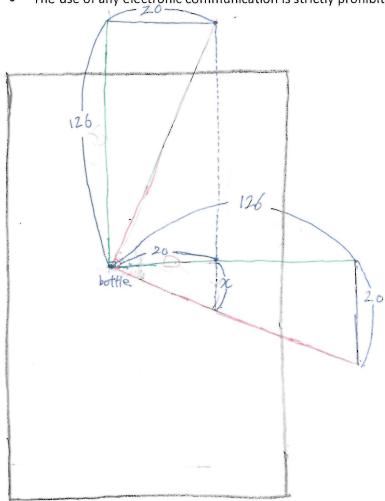
Division: Junior / Senior

Team Name:

Team School Organization Name: _

Unknown Task #2: Fence is NOT centered

- Describe how your team solves the unknown task #2 as mathematical as possible for a special "problem solving" award.
- Teams may use the computer to calculate numbers. However, cell phone cannot be used.
- The use of any electronic communication is strictly prohibited.



if robot hit point is 900.

1267 = 400

7 = 136

: -2 = 3.17

so we should move balkwand about 3,17cm