(02)

a) heas grapio = 1:120.

Mameter 55mm.

Circumference $G = \Pi D$ of wheel = 204.203 mm.

To travel imeter in straight line. 1m = 1000mm.

1 Dev of wheel = 204.203mm

2 - 1000

ro. of rev. wheel revolutions.

for in travel = 1000 = 4.89.9420 deution

no-of motor succellutions for intraced
= 4.89 × 120

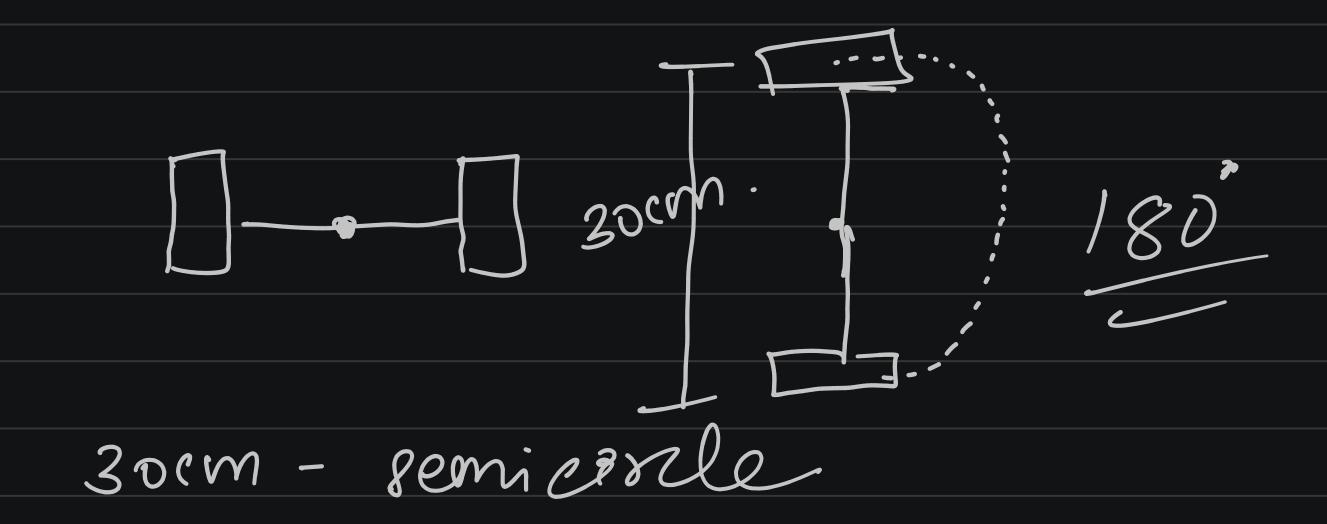
no. Of motor C= 587.65 N 588 neu olutions J = 587.65 N 588 b) Encodes Rcks = & Riks new For 2 meters distance. The no-of revolutions
of the wheel = 2000 = 9.79 9UQU uheel greu = 120 motor sur IWOPOR GUU = & HUU of enodes. ' 1 wheel = 120×8 = 960 Kcly. 9.79 wheel eren s NU. 08 HCKS = 9.79×960

= 9398-4 => 9399 FCM

Creas mario= 1:53.

Diameter of wheels = 14 cm.

width of nobot= 30cm.



Diameter of the gemixircle = 30cm.

Circumference of gemiricle = TID

= 47.12 cm

loursel revolution course. = 1TX die of wheel = 1TXIU = 43.98cm.

$$1 \text{ wheel sign} = 43.95$$
 $= 47.12$