The whiteboard diagram shows:

d

x r

angle $= x + 90$

$90 + x$

r

circumference $= \pi \cdot 2 \cdot r$

sector area $= \left(\dfrac{x+90}{360}\right) \cdot$ circumference

r r

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- Where x and r are given. R is the distance the front encoder is ahead, x is the angle it makes with horizontal, and d is the actual distance (not the angle, but the length of that angle itself) we want to turn the motor backwards.
- Use sector area and stuff to get that.