$$N = 100$$
 in 5 min

$$5 = \frac{W}{2\pi r f}$$

$$W = \frac{2.7}{100} \times 981$$

$$f = f\left(\frac{r}{V^{1/3}}\right)$$
 kun

$$V = \frac{0.027}{0.78}$$

$$f = f\left(\frac{\Gamma}{V^{1/3}}\right) V = \frac{0.078}{0.78}$$

$$\frac{\Gamma}{V^{1/3}} = \frac{0.25}{(0.027/0.78)^{1/3}} = 0.767$$

$$V = \frac{0.767}{0.78}$$

$$5 = \frac{2.7/00 \times 981}{2\pi (0.25)(0.6)}$$

$$= 75 = 28 \text{ dynes/cm}$$

Amott Wettability Test

- 1) Initial State -> sat. with water -> oil flood -> bring to Sw, irr
- 2) Place in Water

 -> spontaneous imbibition -> Va
 (SP)
- 3) Forced imb. of water additional oil gets out -> 1/6
 - 4) What do I have in the sample?
 res. oil & Water

Immerse in oil

> water gets out -> Vc

3

5) Forced drainage

Exercises

-> More water out -> 1/4