

Presentations

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Tips for good design

1. Include a title in each frame.
2. Do not use small fonts
3. Use `\uncover<n-m>` to reveal content on slides **n-m**.



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Common Mistakes

- ▶ Too much content!
- ▶ Lots of text/math on a slide
- ▶ Rapid speech without pauses
- ▶ No images
- ▶ Lots of uncovering (a striptease)



The Fundamental Theorem of Algebra

Theorem: Every polynomial $f(x) = a_nx^n + \cdots + a_0$ has a root in \mathbb{C} .

Proof: If $r \approx 0$, then $f(re^{it}) \approx a_0$, so $f(re^{it})$ is approximately one point.

If $r \approx \infty$, then $f(re^{it}) \approx a_nr^n e^{int}$, so $f(re^{it})$ is approximately a big circle that encircles the origin.

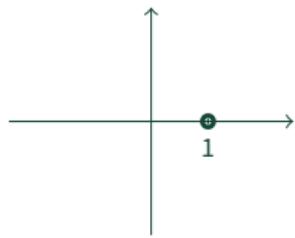
So as r changes from 0 to ∞ , there are values r, t such that $f(re^{it})$ crosses the origin. □



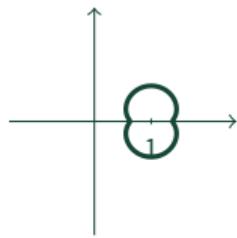
An example when $f(x) = x^3 - x + 1$

$f(re^{it})$ for $t \in [0, 2\pi]$ shown on the complex plane:

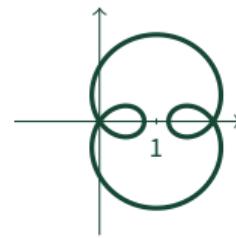
$$r = .1$$



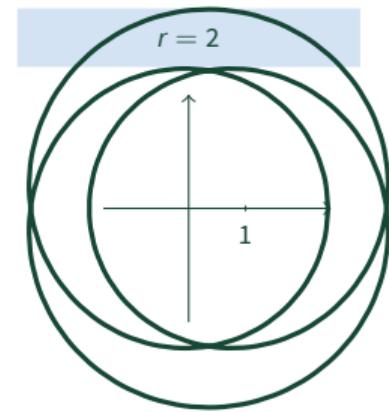
$$r = .5$$



$$r \approx 0.868837\dots$$



$$r = 2$$



Cal Poly Colors

White	Black	CalPolyGreen	CalPolyGold	DigitalGold	StadiumGold	PolyCanyon	DexterGreen	FarmersMarket	SkyBlue	SurfBlue	Serenity	MorroBlue	MissionBeige	PismoSand	CoastSage	Sycamore	KennedyGray	SealGray	HeritageOrange	HeritageOrange50	Avocado	Avocado50
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