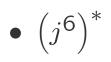
Circuits and Signals: Biomedical Applications Week 6 In–Class Exercises

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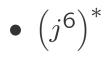
> > Oct 2023

## Express in Rectangular and Polar Form and Graphically



- $(2 \angle 4^{\circ})^{12}$
- $7 \angle 35^{\circ} \times 6 \angle -13^{\circ}$
- $\sqrt{16 \angle \pi/4}$
- (12 + 16j) + Complex Conjugate

## Same Problems: Do it in Matlab



- $(2 \angle 4^{\circ})^{12}$
- $7 \angle 35^{\circ} \times 6 \angle -13^{\circ}$
- $\sqrt{16 \angle \pi/4}$
- (12 + 16j) + Complex Conjugate

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## Plot vs. Time

$$i = 7 \text{ mA}e^{j\pi/4} + 4j\text{mA}$$
 at 60Hz