Unit 1 Lesson 7 Notes: Complex Arithmetic

- The following is Euler's Formula:

$$e^{it} = \cos(t) + i\sin(t)$$

- A complex number is one of the form

$a + ib$, where a and b are real

- Division of imaginary numbers used multiplication by the bottom's conjugate.

- One can rewrite a complex number as polar using

$$x + iy = r(\cos(\theta) + i\sin(\theta)) = re^{i\theta}$$

Unit 1 Lesson 7 Quizzes

1: Flip across x axis

2: $a < 0$

3: -4