Monday January 26 Class 3:

Polar and Exponential Form of Complex Numbers. Introduction of the \texttt{arg} function. The Euler and De Moivre Formulas.

Reading:
Saff & Snider, (Section 1.3 and 1.4)

Homework: (due Friday January 30)
Saff & Snider, Section 1.3 # 2, 5, 6, 7(abc), 12, 13 Extra Credit: # 22
QUIZ #1

Wednesday January 28 Class 4:

Polynomial Equations of a Complex Variable. Roots (Fractional Exponents) of a Complex Variable.

Reading:
Saff & Snider, (Section 1.4 and 1.5)

Homework: (due Friday January 30)
Saff & Snider, Section 1.4 # 2, 4, 5, 8 Extra Credit: #22, 23

Friday January 30 Class 5:

Point Sets in the Plane. Introduction of various concepts associated with point sets: neighborhood, limit point, openness, closedness, connectedness, boundedness et cetera.

Reading:
Saff & Snider, (Section 1.6)

Homework: (due Friday February 6)
Saff & Snider, Section 1.5 # 3, 4, 5, 6, 10, 11, 15 Extra Credit: #21
Saff & Snider, Section 1.6 # 2,3,4,5,6,7,8