$$c_{1} = 2e^{i17\pi/30}$$

$$c_{0} = 2e^{i\pi/6}$$

$$c_{2} = 2e^{i29\pi/30}$$

$$c_{3} = 2e^{-i19\pi/30}$$

$$c_{4} = 2e^{-i7\pi/30}$$