Homework 7

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Question 1

when
$$N=3$$

$$W = \exp\left[\frac{-22i}{N}\right]$$

$$= \exp\left[\frac{-22i}{3}\right]$$

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$$= 0.5 - 0.866i$$

$$W^{(0)} W^{(0)} W^{(0)} W^{(0)} = 0.3333 - 0.1669 + 0.889i - 0.1669 - 0.889i$$

$$= -0.5 - 0.866i$$

Question 2

Question 3 (a)

$$\begin{aligned}
\hat{f} &= \{1.15 > 8\} \\
0 &= 0.0618 - 0.1962 \land 0.0186 \land 0.1964 \land 0.1964 \land 0.0618 + 0.1964 \land 0.0618 +$$

Question 3 (b)

$$F = f f \Rightarrow f' = F^{+} F$$

$$= \begin{cases} a > 0.2 & 0.2 \\ a > a.668 + 0.196 \times a.196 \times a.1$$