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Assignment - 1

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Abstract—This document contains the solution to Exercise 3.10 (e) of Oppenheimer.

Problem 1. Given that,

$$x[n] = u[n+10] - u[n+5]$$
 (1)

$$= \begin{cases} 1 & -10 \le n < -6 \\ 0 & otherwise \end{cases}$$
 (2)

find ROC

Solution:

x[n] is finite length and has only positive powers of z, hence, its ROC is $|z| < \infty$