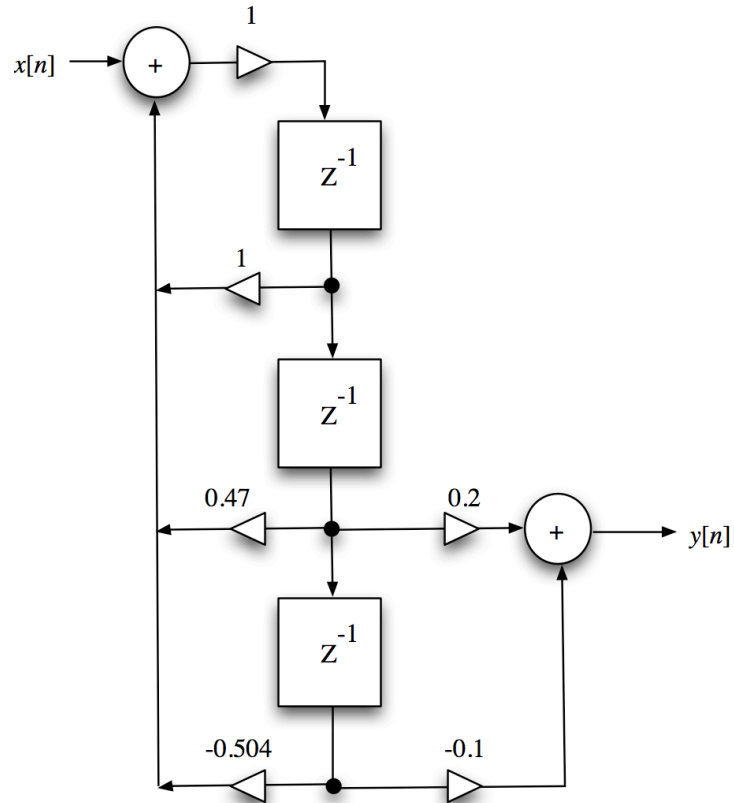


# ECE 312 HW#7 Solution

1.



$$y[0] = 0$$

$$y[1] = 0$$

2.  $y[2] = 0.2$

$$y[3] = -0.3$$

$$y[4] = 0.22$$

$$y[5] = -0.07$$

3. The ROC must contain all of the poles, which are at 0.8, -0.7 and 0.1. Thus the ROC contains the unit circle and the DTFT exists.

$$H(\theta) = H(z) \Big|_{z=e^{j\theta}}$$