Assignment 4
Due on: 2019-08-26, 23:59 HKT

1. Power at Port 2
   \[ P = P_{in} - P_{out} \]
   \[ P_{in} = 10 \text{ W} \]
   \[ P_{out} = 5 \text{ W} \]
   \[ P = 5 \text{ W} \]
   
   2 points

2. Power at Port 3 and 4, respectively
   \[ P_3 = P_4 = 2 \text{ W} \]
   
   2 points

3. Power at Port 5
   \[ P_5 = 0 \text{ W} \]
   
   2 points

4. Power at Port 6
   \[ P_6 = 0 \text{ W} \]
   
   2 points

5. The circuit shown in Fig. 1a is a network with line impedances of \[ Z_1 = 50 \Omega \] and \[ Z_2 = 100 \Omega \]. Calculate the power delivered to the load. (6 points)

6. For the network shown in Fig. 2, calculate the power delivered to the load. (6 points)