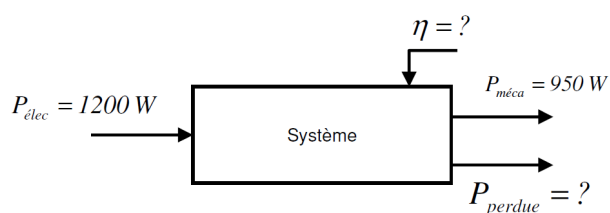
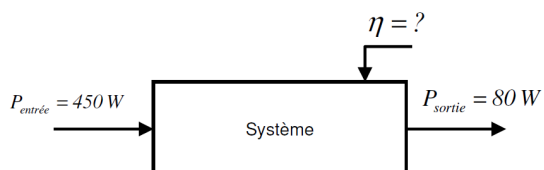
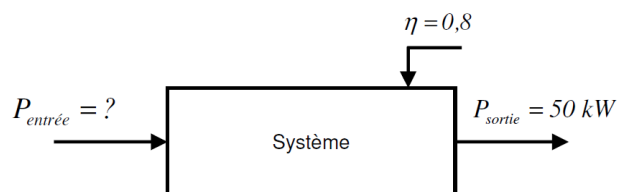
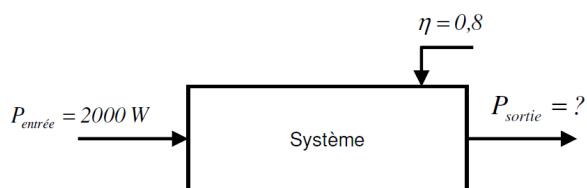
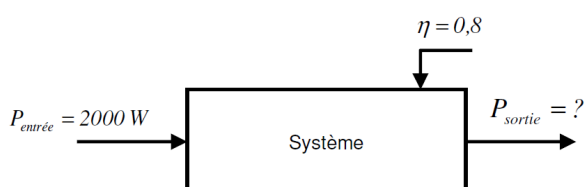




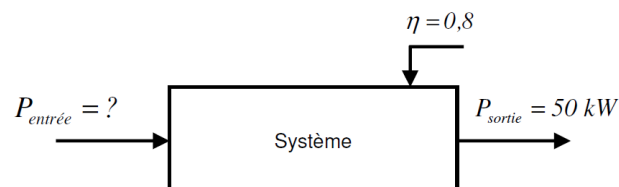
Pour chaque schéma-bloc, calculer la(les) donnée(s) manquante(s).



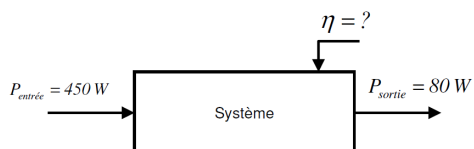
CORRECTION



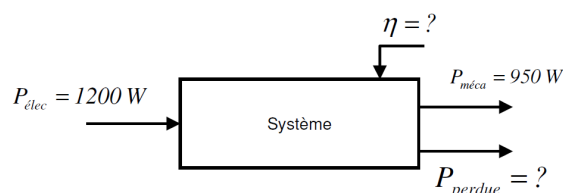
$$\eta = \frac{P_{\text{sortie}}}{P_{\text{entrée}}} \Leftrightarrow P_{\text{sortie}} = \eta \times P_{\text{entrée}} = 2000 \times 0,8 = 1600 \text{ W}$$



$$\eta = \frac{P_{\text{sortie}}}{P_{\text{entrée}}} \Leftrightarrow P_{\text{entrée}} = \frac{P_{\text{sortie}}}{\eta} = \frac{50}{0,8} = 62,5 \text{ kW}$$



$$\eta = \frac{P_{\text{sortie}}}{P_{\text{entrée}}} = \frac{80}{450} = 0,18$$



$$\eta = \frac{P_{\text{méca}}}{P_{\text{élec}}} = \frac{950}{1200} = 0,8$$

$$\sum P_{\text{entrantes}} = \sum P_{\text{sortantes}} \quad (\text{principe de conservation de l'énergie})$$

$$P_{\text{élec}} = P_{\text{méca}} + P_{\text{perdue}} \Leftrightarrow P_{\text{perdue}} = P_{\text{élec}} - P_{\text{méca}} = 1200 - 950 = 250 \text{ W}$$