Problem 1. Decide if each of the following is a walk, a trail, a path, a circuit, a tour, a cycle, or neither.

(a) 1–2–7–6–1;
(b) 3–4–3–7;
(c) 5–2–1–6–5;
(d) 2–3;
(e) 7–5–4–3–7–6–1–2–7;
(f) 6–7–2–6–7–2–6;
(g) 4–3–7–5–3–2;

Problem 2. Does each of the following graphs have an Euler circuit? If yes, number the edges in the order of their appearance in an Euler circuit. If no, explain why not.

(a)  
(b)  
(c)  

(a) 
(b) 
(c)