

Assignment 9 – Part 2
Set 10.2 : 2, 14

2. In the graph below, determine whether the following walks are trails, paths, closed walks, circuits, simple circuits, or just walks.

a. $v_1 e_2 v_2 e_3 v_3 e_4 v_4 e_5 v_2 e_2 v_1 e_1 v_0$

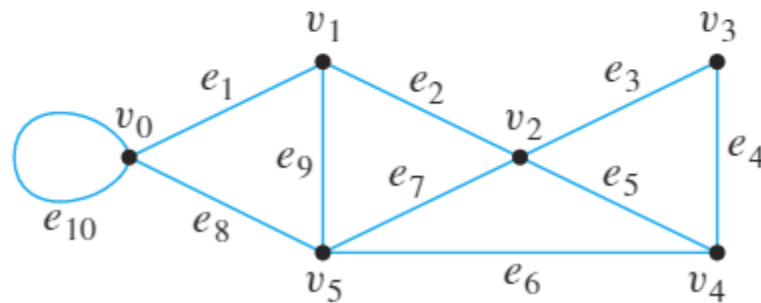
b. $v_2 v_3 v_4 v_5 v_2$

c. $v_4 v_2 v_3 v_4 v_5 v_2 v_4$

d. $v_2 v_1 v_5 v_2 v_3 v_4 v_2$

e. $v_0 v_5 v_2 v_3 v_4 v_2 v_1$

f. $v_5 v_4 v_2 v_1$



2.a.) walk

2.b.) simple circuit

2.c.) closed walk

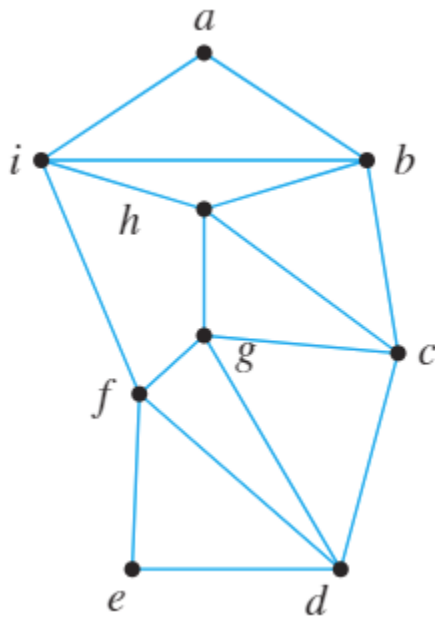
2.d.) circuit

2.e.) trail

2.f.) path

Determine which of the graphs in 12–17 have Euler circuits. If the graph does not have an Euler circuit, explain why not. If it does have an Euler circuit, describe one.

14.



14.) $abihbchgcdgfdefia$