Tuesday, March 1, 2016 4:00 PM

10.2-4 Consider the following graph



a How many paths are there from v, to vy

3. Because V2 has 3 paths

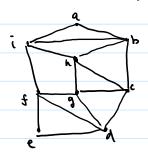
6 How many trails are those from V, to V4

9. There are 3 direct paths from v, to vy. There are 3! ways at vz. 3 to cross 2 to return and I final to cross again

c How many walks are there from v, to vy

∞. Because walks allow both edge and vertex repetition

10.2-14 Determine if the graph is a Euler circuit



By definition a Euler circuit, every vertex must have a positive even degree

$$deq(a) = 2$$
 $deq(e) = 2$ $deq(1) = 4$
 $deq(b) = 4$ $deq(f) = 4$
 $deq(c) = 4$ $deq(q) = 4$
 $deq(d) = 4$

Enter circuit = iabihbchgcdgfdefi