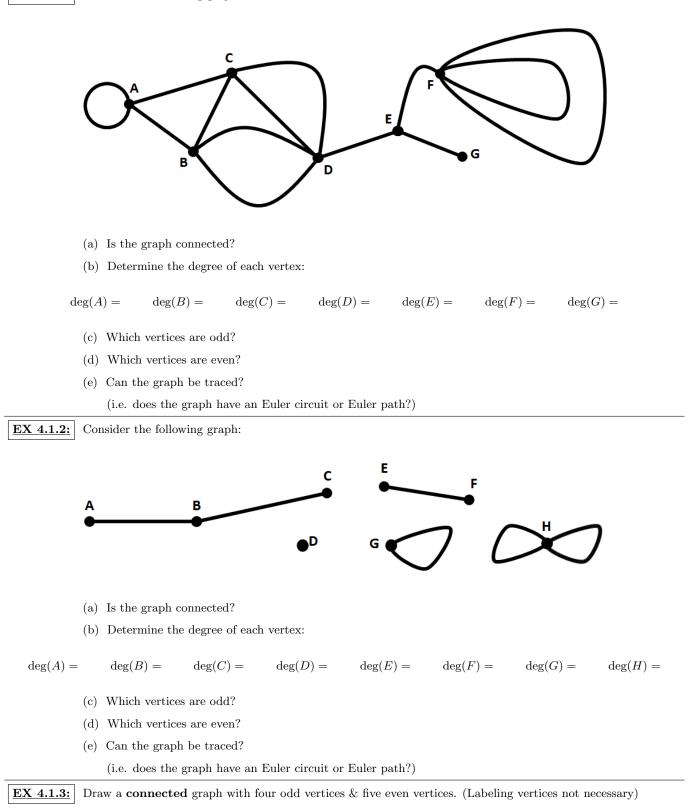
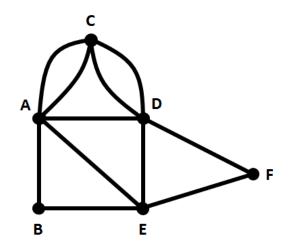
<u>EX 4.1.1:</u> Consider the following graph:





(a) Determine the degree of each vertex:

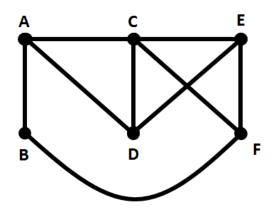
 $\deg(A) = \qquad \deg(B) = \qquad \deg(C) = \qquad \deg(D) = \qquad \deg(E) = \qquad \deg(F) =$

- (b) Which vertices are odd?
- (c) Which vertices are even?
- (d) Can the graph be traced?

(i.e. does the graph have an Euler circuit or Euler path?)

If so, trace the graph (by numbering each successive edge 1,2,3,...)

<u>EX 4.1.5</u> Consider the following graph:



(a) Determine the degree of each vertex:

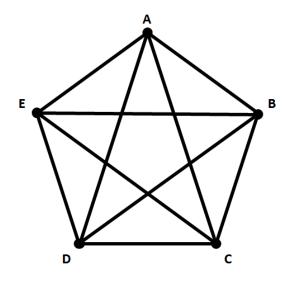
 $\deg(A) = \qquad \deg(B) = \qquad \deg(C) = \qquad \deg(D) = \qquad \deg(E) = \qquad \deg(F) =$

- (b) Which vertices are odd?
- (c) Which vertices are even?
- (d) Can the graph be traced?

(i.e. does the graph have an Euler circuit or Euler path?)

If so, trace the graph (by numbering each successive edge 1,2,3,...)

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(a) Determine the degree of each vertex:

 $\deg(A) = \qquad \deg(B) = \qquad \deg(C) = \qquad \deg(D) = \qquad \deg(E) =$

- (b) Which vertices are odd?
- (c) Which vertices are even?
- (d) Can the graph be traced?

(i.e. does the graph have an Euler circuit or Euler path?)

If so, trace the graph (by numbering each successive edge $1,2,3,\ldots$)