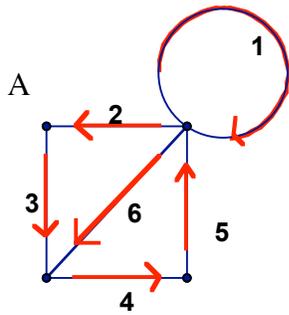
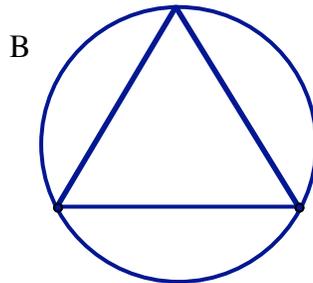


Euler circuit and path worksheet:

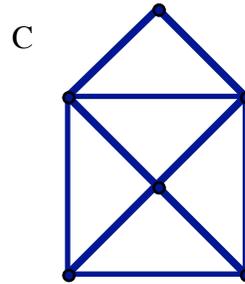
Part 1: For each of these vertex-edge graphs, try to trace it (without lifting your pen from the paper, and without tracing any edge twice). If you succeed, number the edges in the order you used them (putting on arrows is optional), and circle whether you found an Euler circuit or an Euler path. The first one is done for you



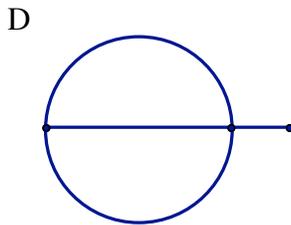
- a. Euler circuit
- b. Euler path
- c. Not traceable



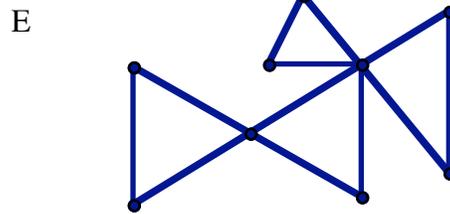
- a. Euler circuit
- b. Euler path
- c. Not traceable



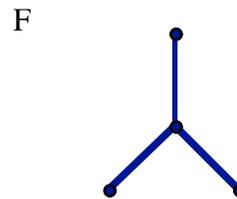
- a. Euler circuit
- b. Euler path
- c. Not traceable



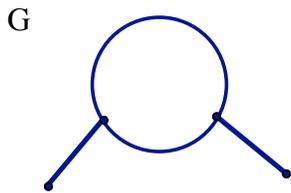
- a. Euler circuit
- b. Euler path
- c. Not traceable



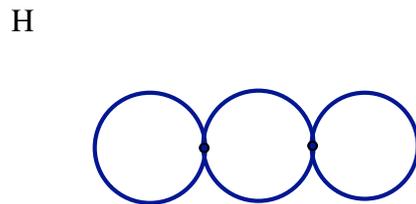
- a. Euler circuit
- b. Euler path
- c. Not traceable



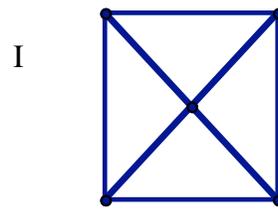
- a. Euler circuit
- b. Euler path
- c. Not traceable



- a. Euler circuit
- b. Euler path
- c. Not traceable

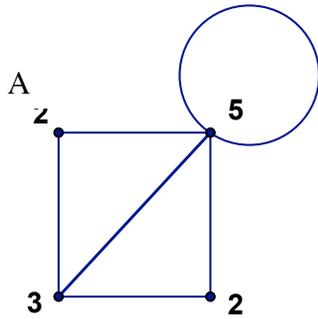


- a. Euler circuit
- b. Euler path
- c. Not traceable



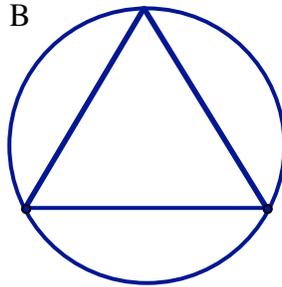
- a. Euler circuit
- b. Euler path
- c. Not traceable

Part 2: For each of these, write the valence number next to each vertex, then tell how many vertices are odd (odd valence #), and how many are even (the valence # is even)



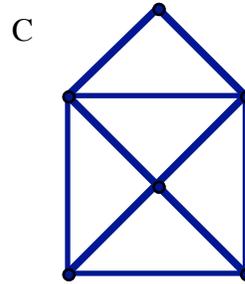
odd V: 2

even V: 2



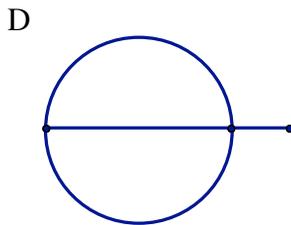
odd V: _____

even V: _____



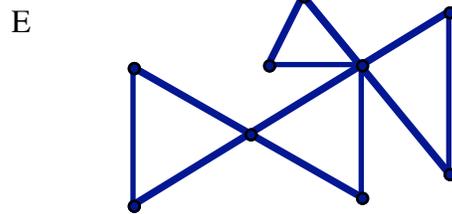
odd V: _____

even V: _____



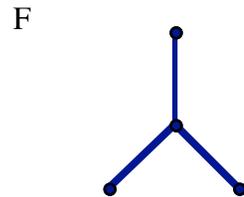
odd V: _____

even V: _____



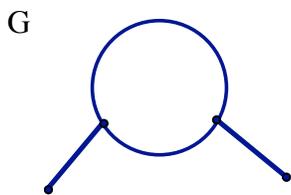
odd V: _____

even V: _____



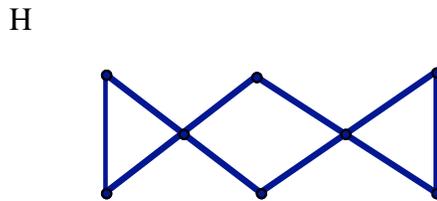
odd V: _____

even V: _____



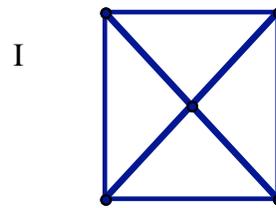
odd V: _____

even V: _____



odd V: _____

even V: _____



odd V: _____

even V: _____

Put it together:

3 of the graphs have Euler circuits. How many odd vertices do they have? _____

3 of the graphs have Euler paths. How many odd vertices do they have? _____

3 of the graphs are not traceable. How many odd vertices do they have? _____

Read the rest of the explanation on the web, and then do the quiz practice.