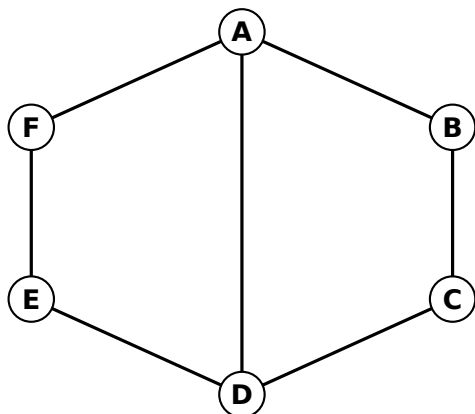


Three one-stroke drawing puzzles

Puzzle sheet

Trace every drawn line exactly once without lifting your pen. You may visit a labelled point again. Do not add lines or retrace one. All junctions are labelled; no lines cross between points. Choose a suitable starting point. Some figures may be impossible.

1

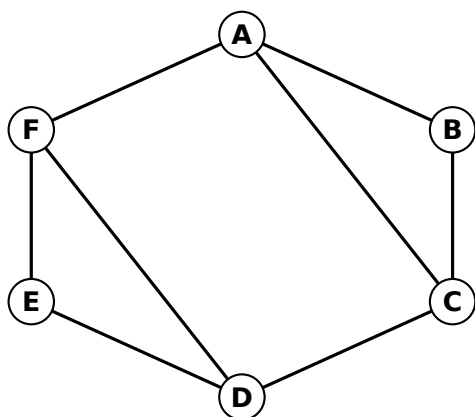


Possible? Yes / No

Start: _____ Finish: _____

Try a route or give a reason:

2

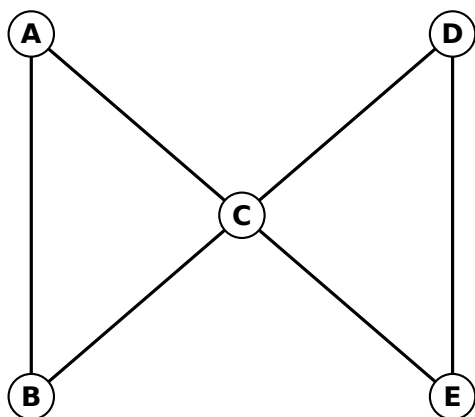


Possible? Yes / No

Start: _____ Finish: _____

Try a route or give a reason:

3



Possible? Yes / No

Start: _____ Finish: _____

Try a route or give a reason:

Print at "Fit to page". Answers are on page 2.

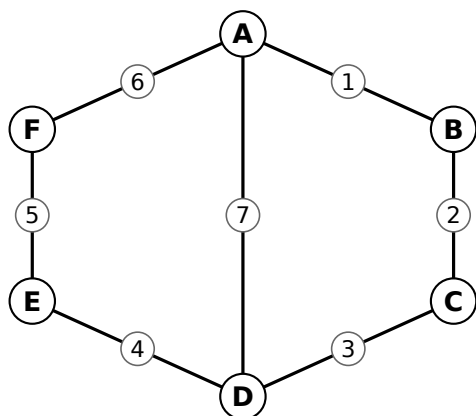
<https://play.coru.cc/en/play/one-stroke-drawing-puzzles/>

Three one-stroke drawing puzzles

Routes and reasons

Count the lines meeting at each point: its degree. At an intermediate point, arrival and departure use a pair of lines. Only the start and finish can have an unpaired line. For a connected figure: 2 odd degrees → different endpoints; 0 → same endpoint; more than 2 → impossible.

1



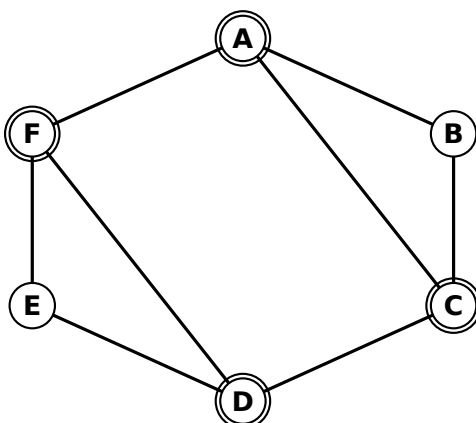
Possible: A to D

Degrees: A 3, B 2, C 2, D 3, E 2, F 2.

A → B → C → D → E → F → A → D

7 lines, each used once. Reverse also works.

2



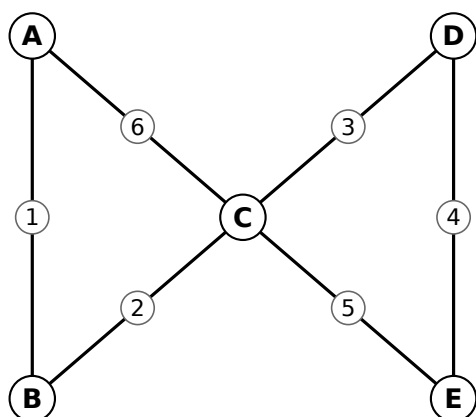
Impossible

Degrees: A 3, B 2, C 3, D 3, E 2, F 3.

A, C, D and F are odd: four points.

One continuous route has only two endpoints.

3



Possible: return to A

Degrees: A 2, B 2, C 4, D 2, E 2.

A → B → C → D → E → C → A

6 lines, each used once. C is visited twice.

You may print and share this complete file unchanged.

<https://play.coru.cc/en/play/one-stroke-drawing-puzzles/>