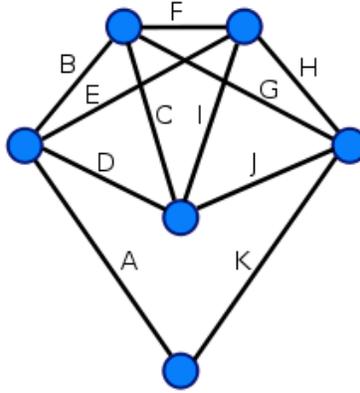


## Mathletes Problem of the Week 10

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### Take a Walk with Euler



A unicursal figure like the one above is one you can draw in a single line without lifting your pencil off the paper or tracing the same line segment twice. The path you trace through a unicursal figure is called an Euler trail, named after Leonhard Euler, a Swiss mathematician from the 1700s. Follow the alphabetical labels in the figure above to find the Euler trail through it.

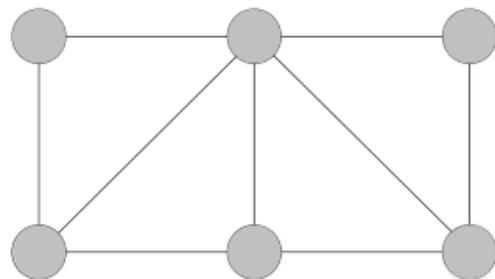
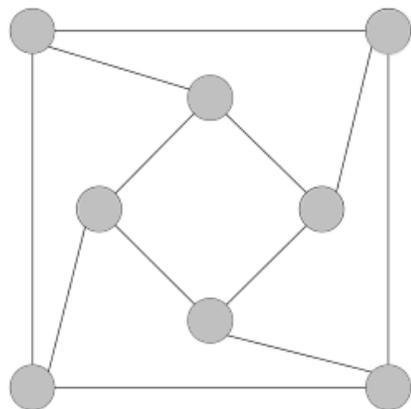
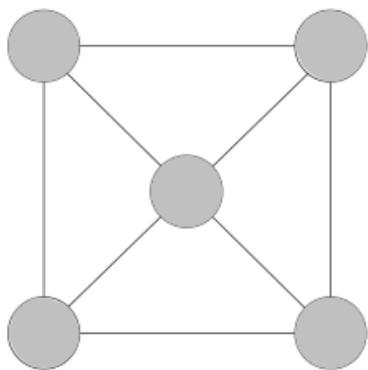
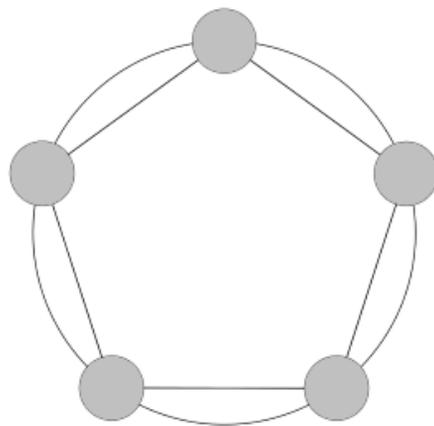
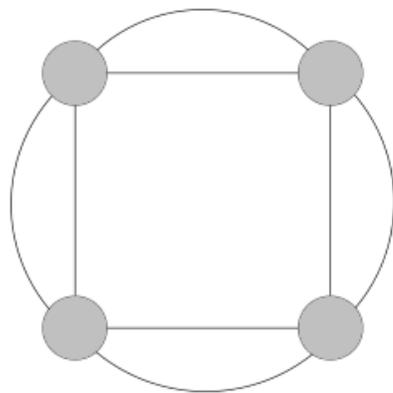
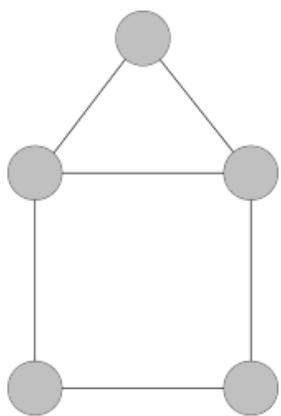
- Which of the figures on the next page are unicursal? Label the Euler trail if you find one.
- Take a look at which figures were unicursal and which weren't and try to describe which kinds of figures have Euler trails and which kinds don't.

**Solutions & Explanations:** (Draw & label your solutions on the figures on the attached page and record what you notice below.)

Name \_\_\_\_\_ Class \_\_\_\_\_

(First and last name, please!)

Solutions due: February 8<sup>th</sup>



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