

Two Ramsey problems on vertex-ordered complete graphs inspired by twisted drawings

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Two first-week exercises introducing Ramsey-type problems are

- In every 2-coloring of the edges of K_n there is a monochromatic spanning tree.
- In every 2-coloring of the edges of K_{3n-1} there is a monochromatic matching of size n .

We discuss how these statements change for vertex-ordered complete graphs where independent edges can be *nested*, *crossing* or *separated*. Results and problems are from a recent joint work with János Barát and Géza Tóth.