

(Nesbitt Room) Free Pizza and Pop

The Sylvester-Gallai Theorem

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If we fix any n points in the plane such that they are not all collinear, then there is a line containing exactly two of the points. This is the famous Sylvester-Gallai Theorem, and I will discuss an elegant proof of this result. Then I will consider many ways we could try to generalize this theorem. These lead to exotic geometries, graph theory, and more.