

4. What is a *convex combination* (of vectors, or matrices, etc)?

5. What is the *Birkhoff von Neumann Theorem*?

6. What is an example of the Birkhoff von Neumann Theorem?

7. What is *Birkhoff's Algorithm* (applied to a matrix with constant row and column sums)?

8. (**Claim:**) Let A be a square nonnegative matrix with constant row and column sums. A finite number of iterations of Birkhoff's algorithm will yield a 0 matrix.

9. How can the last fact be used to prove the Birkhoff von Neumann Theorem?