

# Assignment 3: Exercise 2

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1. This is a paper on a (relatively) new concept in deep learning called a capsule network. This is one of many ideas I may pursue as a summer research project. [\[SFH17\]](#)
2. This is also a paper on capsule networks. It is cool to see that people other than Hinton and his team at Google are playing around with this idea. [\[XBJ17\]](#)
3. This book was recommended to me by a friend. It was one of the more enlightening books I have ever read. It covers many topics from counting, to elementary topology, and explains them in a very tangible way, especially when the author provides real world examples of the concepts he elaborates on in the book. [\[Str12\]](#)

## References

- [SFH17] Sara Sabour, Nicholas Frosst, and Geoffrey Hinton. Dynamic routing between capsules. 2017.
- [Str12] S.H. Strogatz. *The Joy of X: A Guided Tour of Math, from One to Infinity*. An Eamon Dolan book. Houghton Mifflin Harcourt, 2012.
- [XBJ17] E. Xi, S. Bing, and Y. Jin. Capsule Network Performance on Complex Data. *ArXiv e-prints*, December 2017.