Review Exercises IV

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1. **TODO: come back to this**

2. A binomial distribution has mgf $(q + pe^t)^n$.

   The mgf of Y is the product of the mgf of X_1 and X_2:

   $$M_Y(t) = (q + pe^t)^{n_1} \cdot (q + pe^t)^{n_2} = (q + pe^t)^{(n1+n2)}$$

3.

4.

5.

6.

7.

8.