

**An analysis of (dis)ordered categories, thresholds, and crossings in difference  
and divide-by-total IRT models for ordered responses**

**Supplementary Materials**

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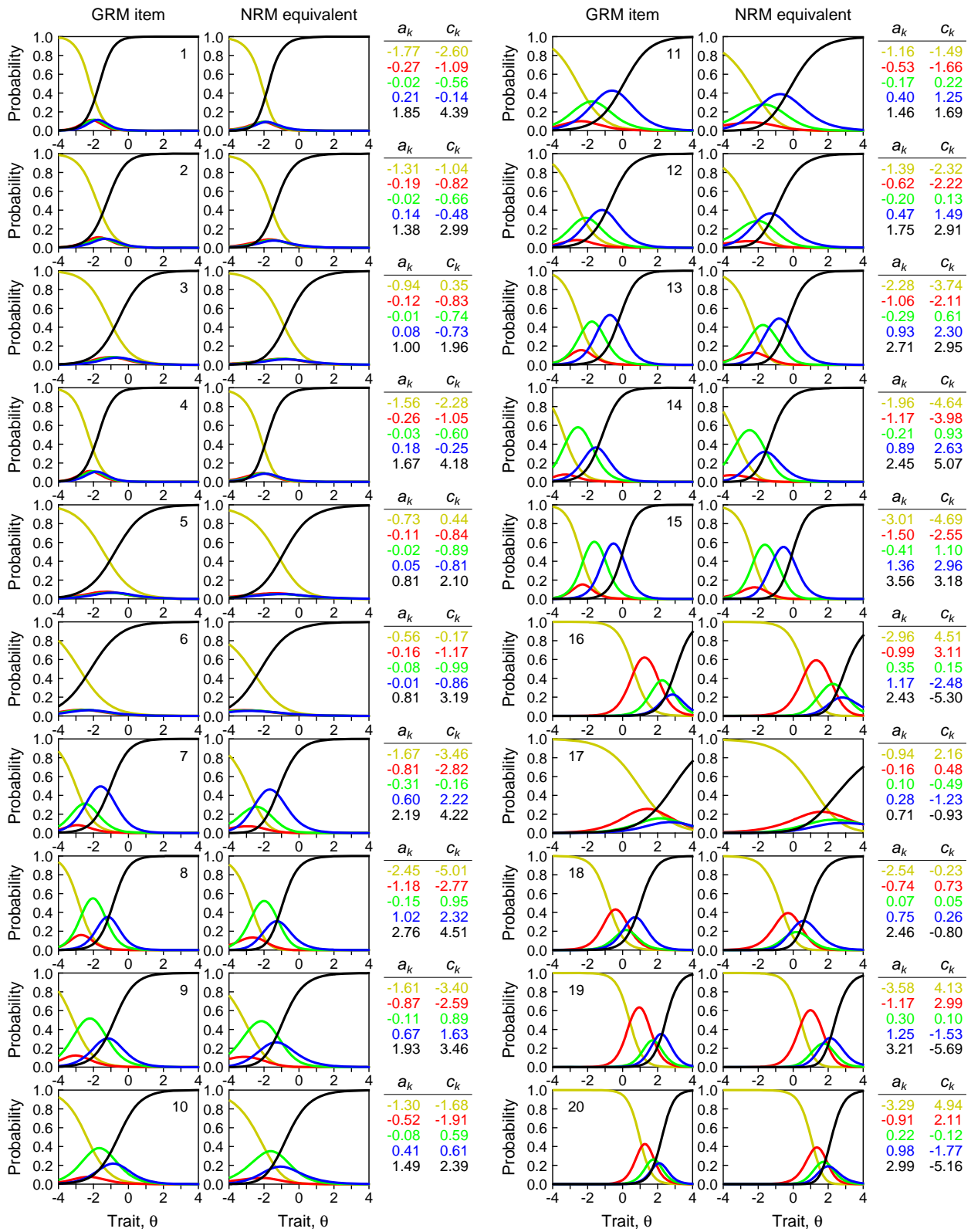


Figure A1. Option response functions for the 20 GRM items in simulation 1 and for the equivalent NRM items used in simulation 2.

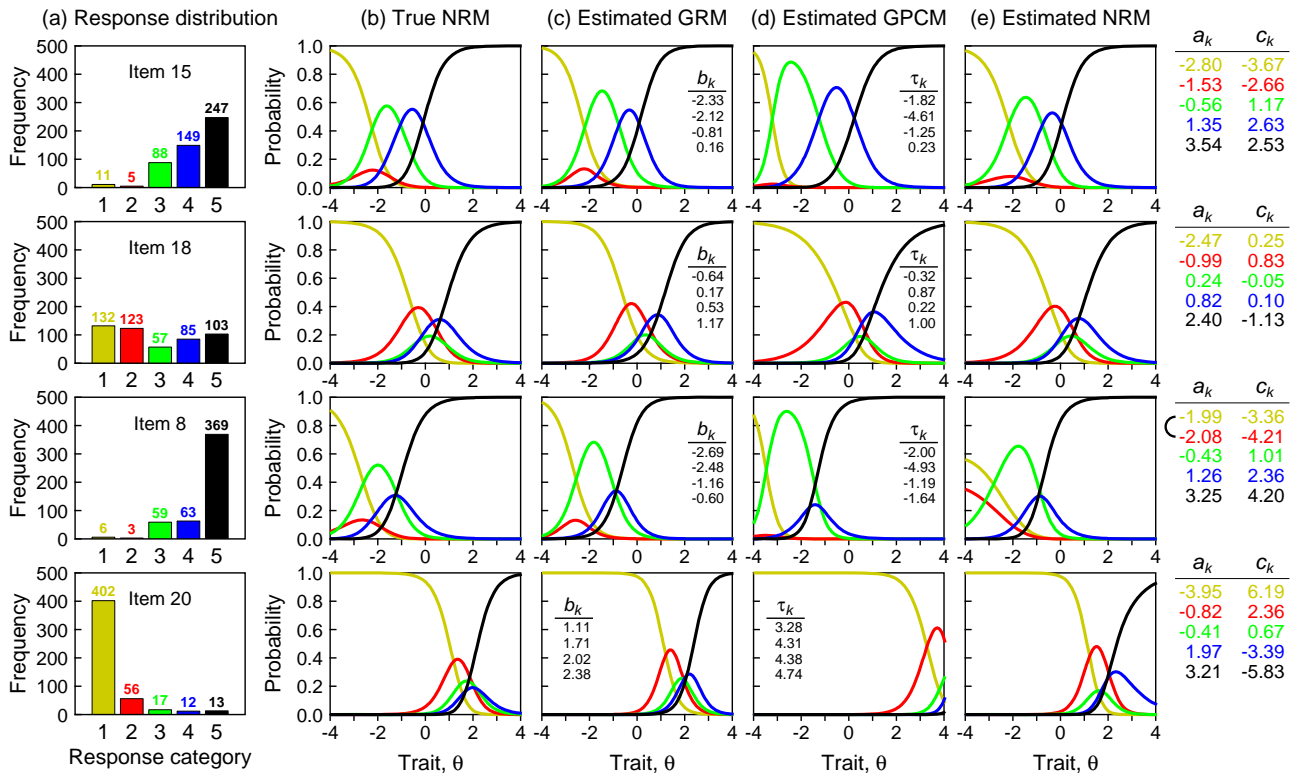


Figure A2. Identical to Fig. 11, but using NRM data from simulation 2.

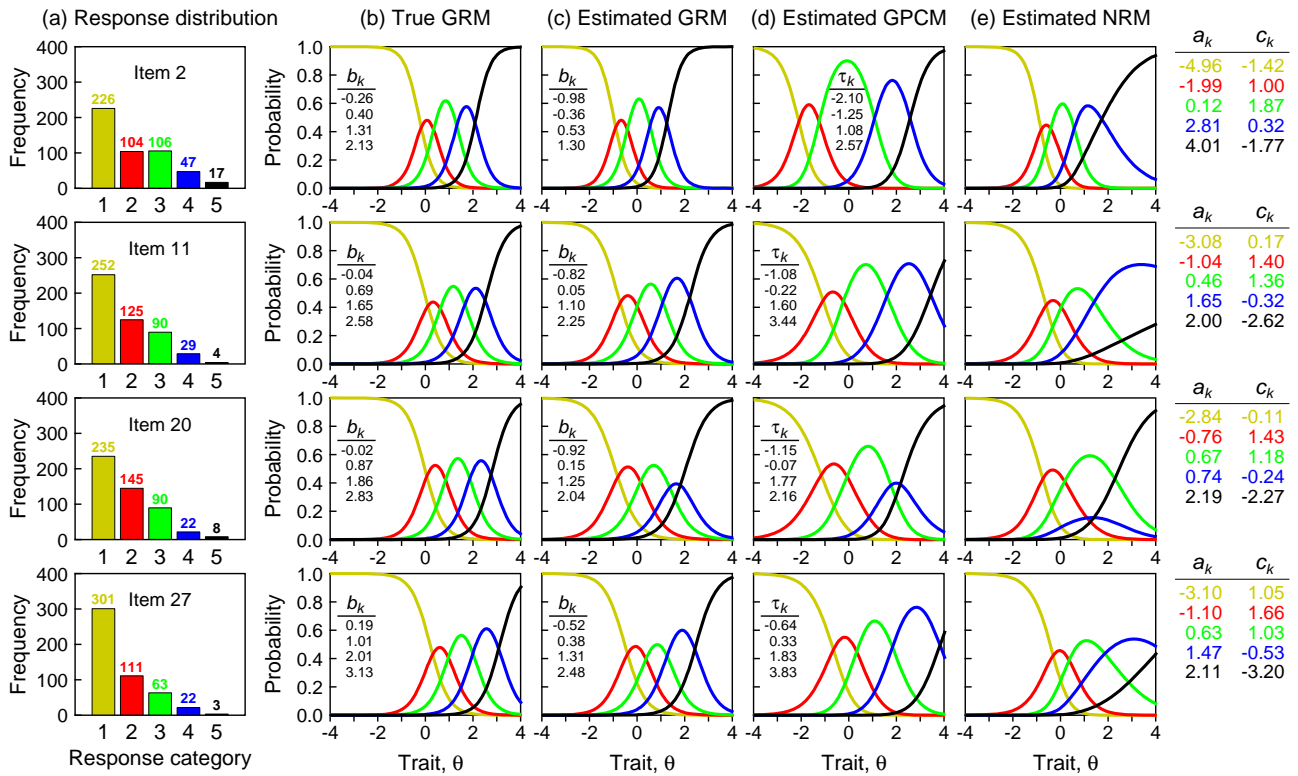


Figure A3. Identical to Fig. 11, but using GRM data from simulation 3.

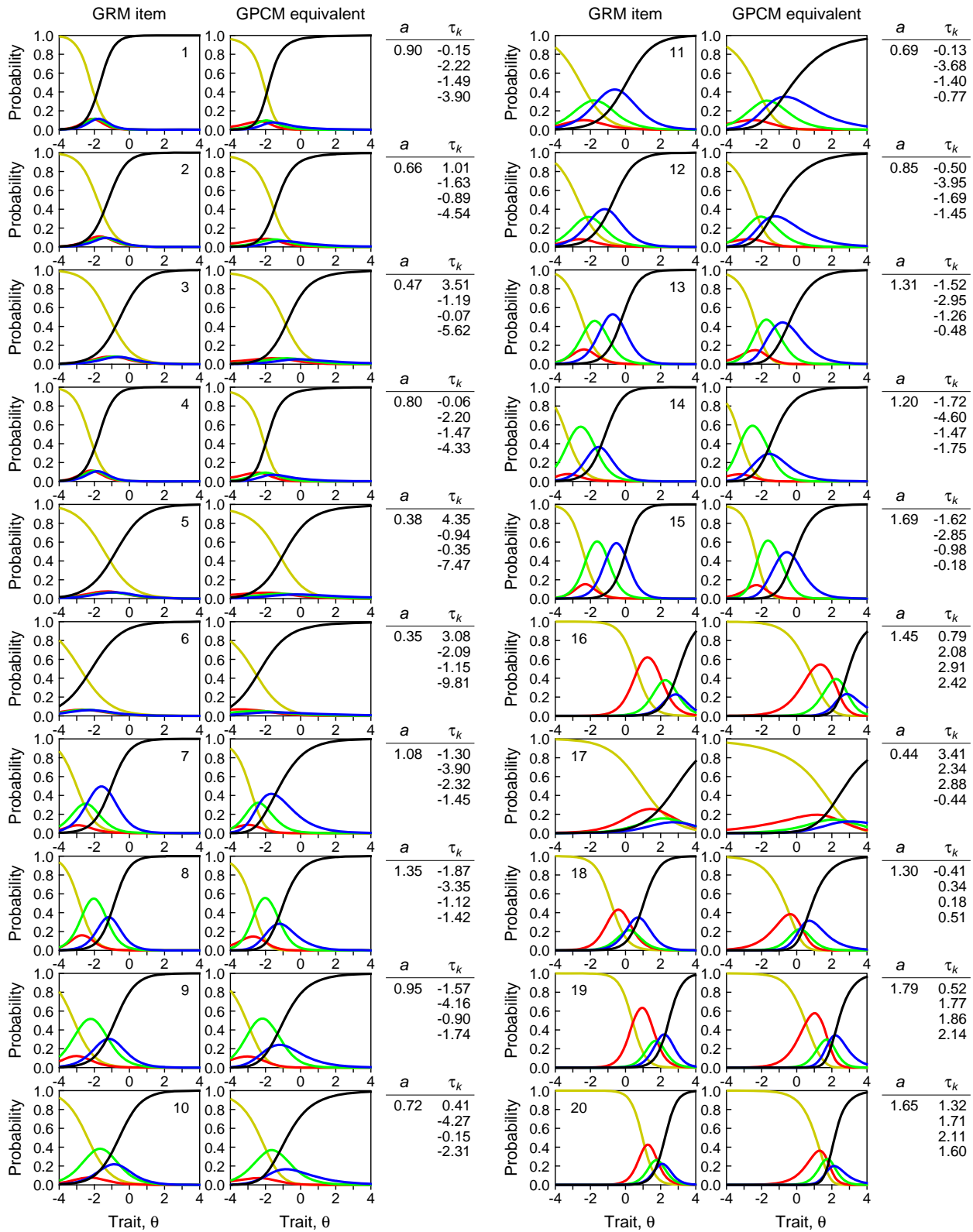


Figure A4. Option response functions for the 20 GRM items in simulation 1 and for the equivalent GPCM items.

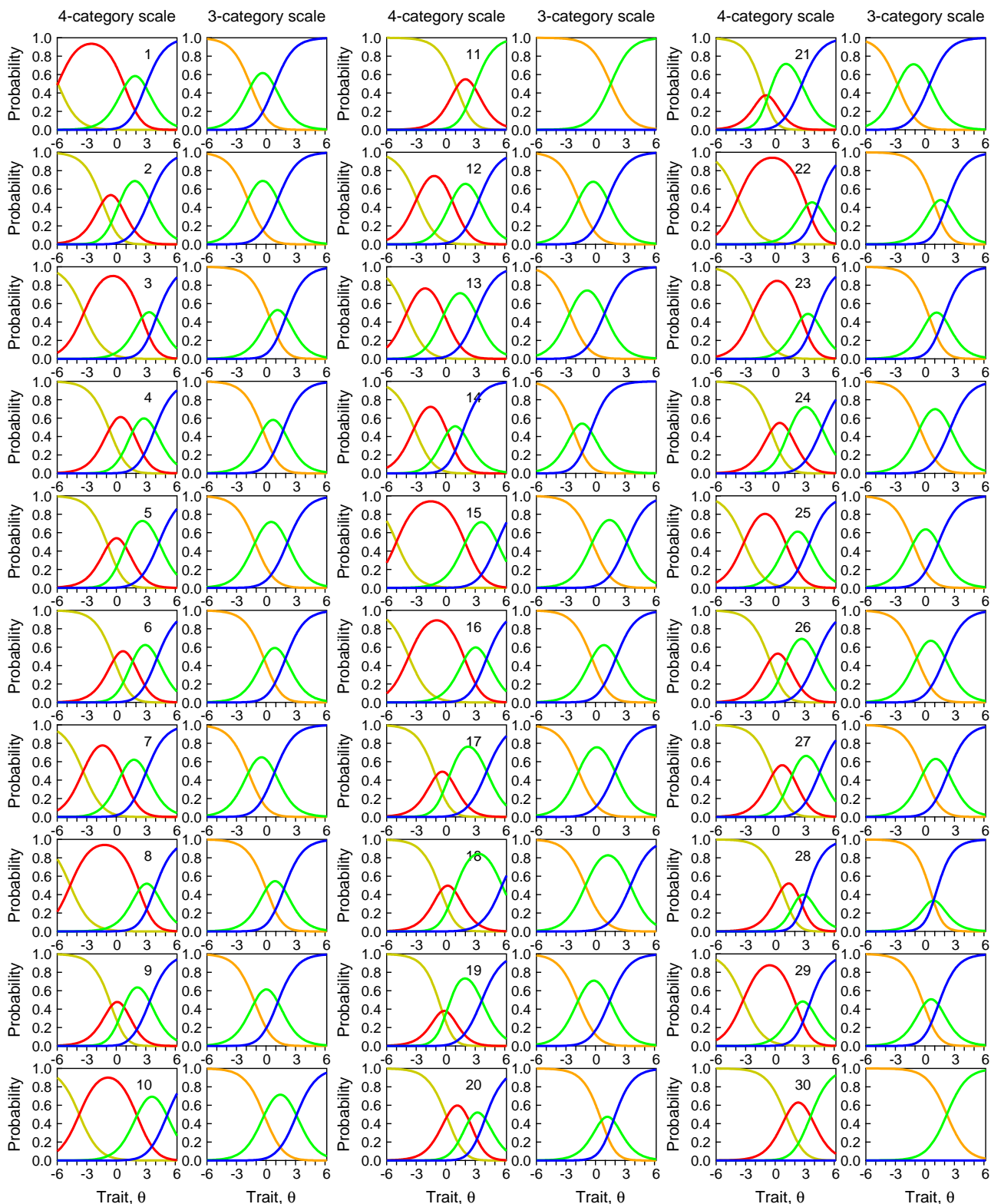


Figure A5. Option response functions for the items used in the simulations of Fig. 15 with the original 4-category scale and the collapsed 3-category scale.