



# Item-level WeHI plots

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- Scale Error Surfaces (SESSs) for both the WeHI & WeHI-roa
- Category Response Surfaces (CRSSs) for the 21 WeHI items

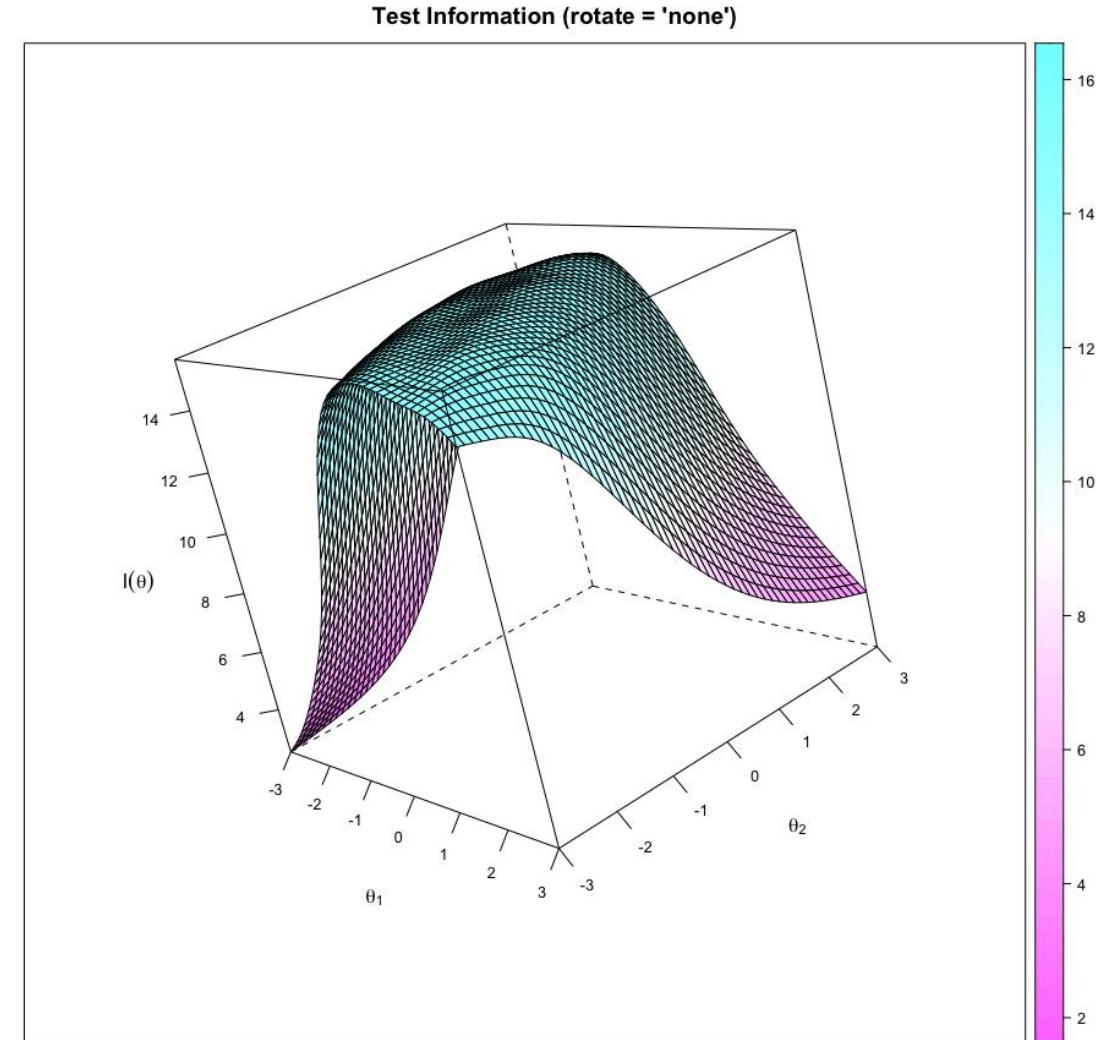
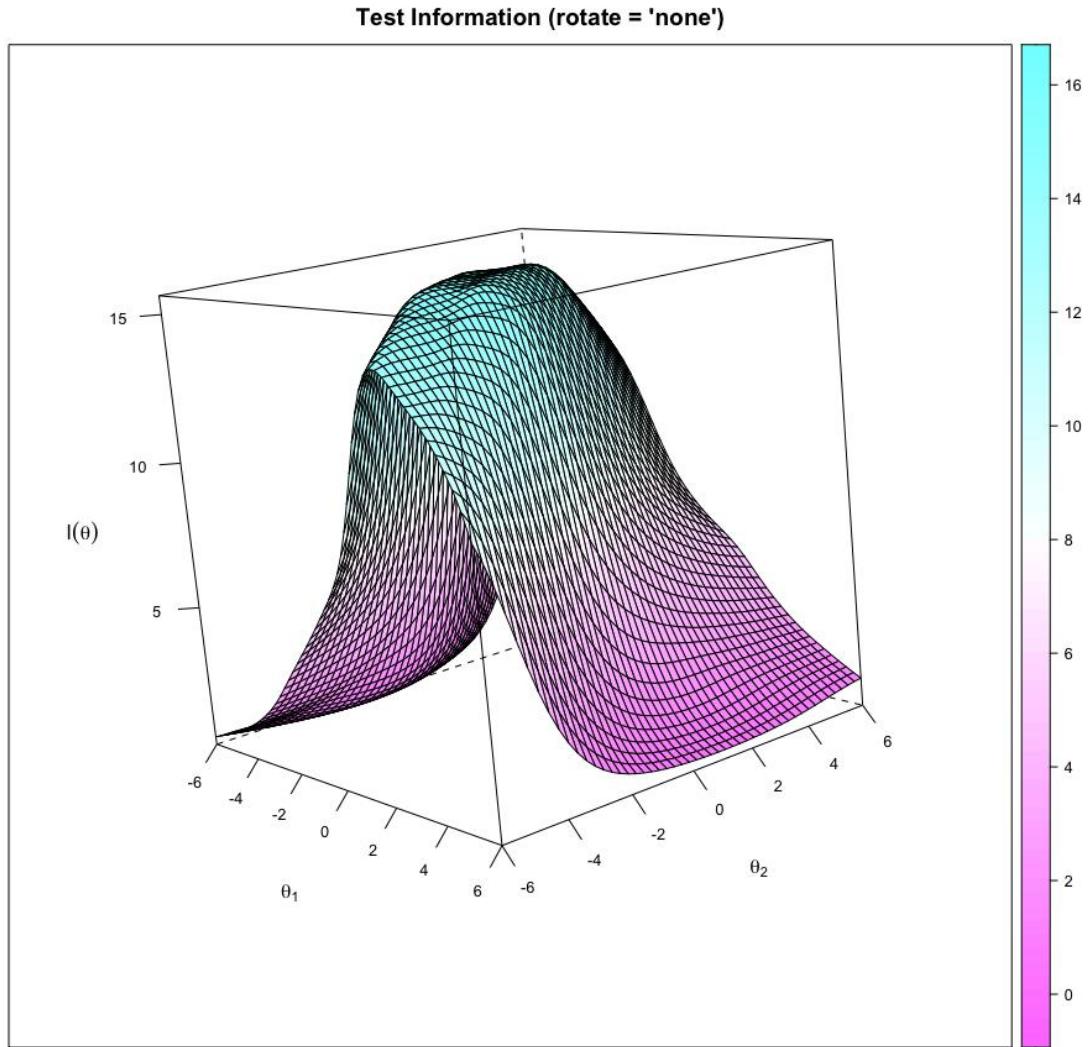
## **Unidimensional Item Response Theory (UIRT)**

- Category Response Curves (CRCs) for WeHI-roa
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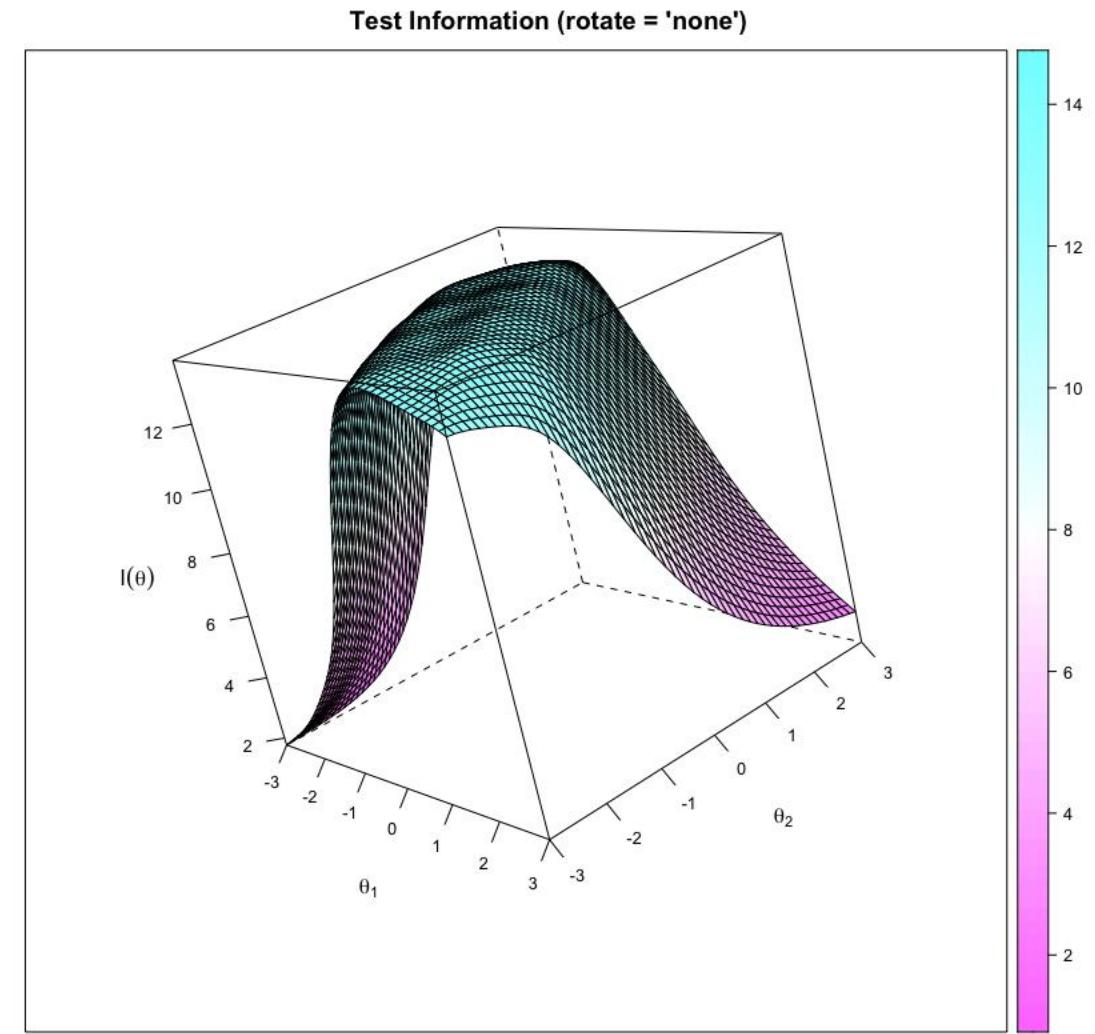
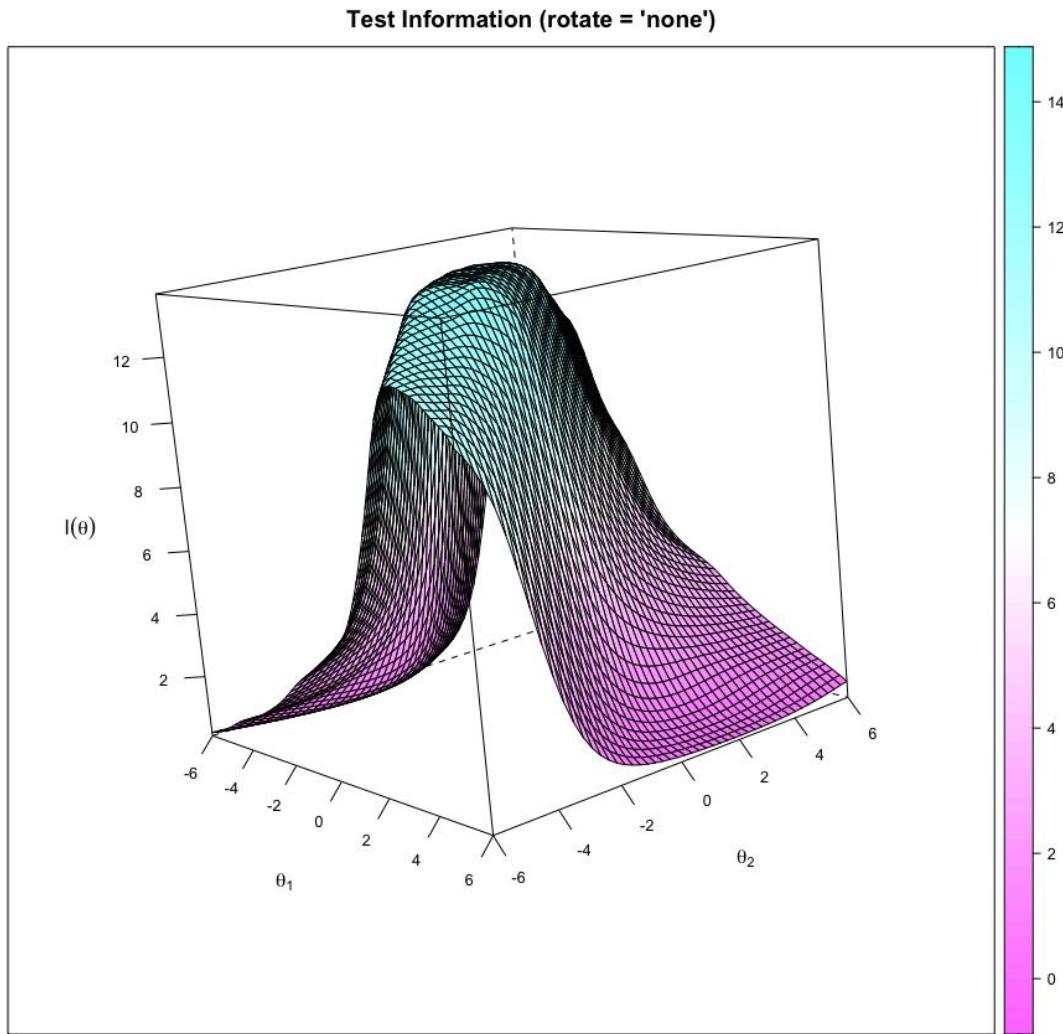
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- Monotonicity plots for WeHI-roa

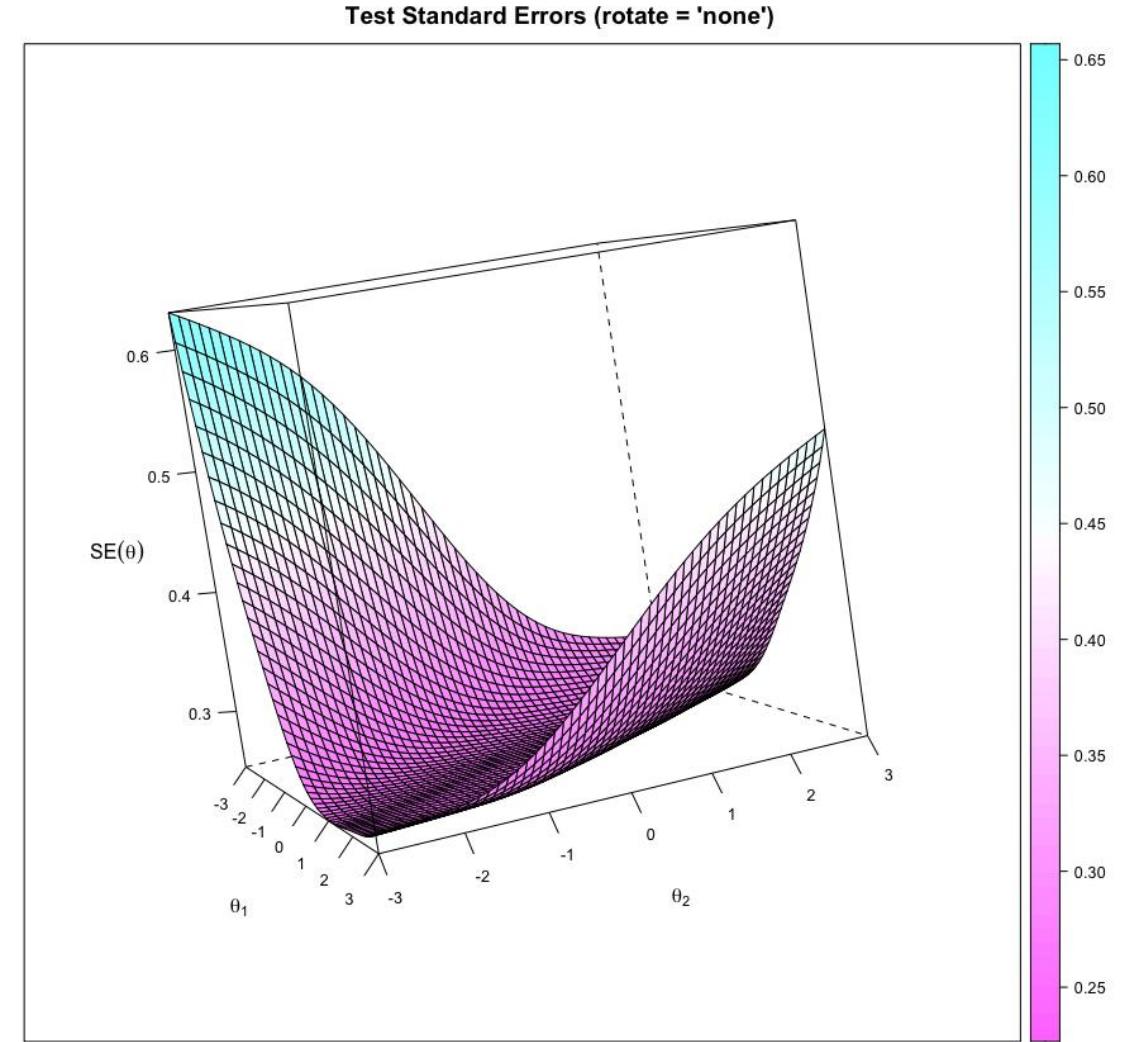
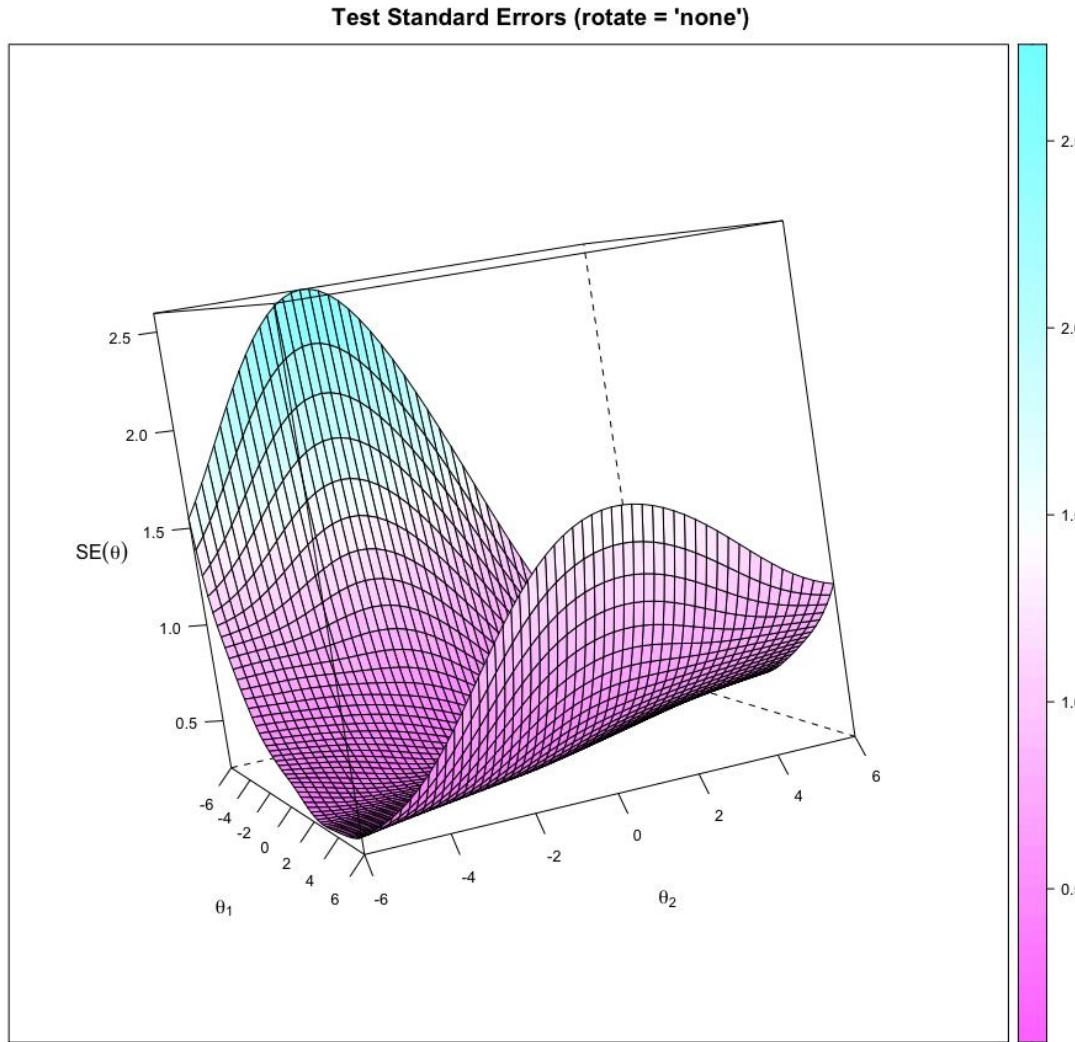
# Scale information Surface (WeHI-roa)



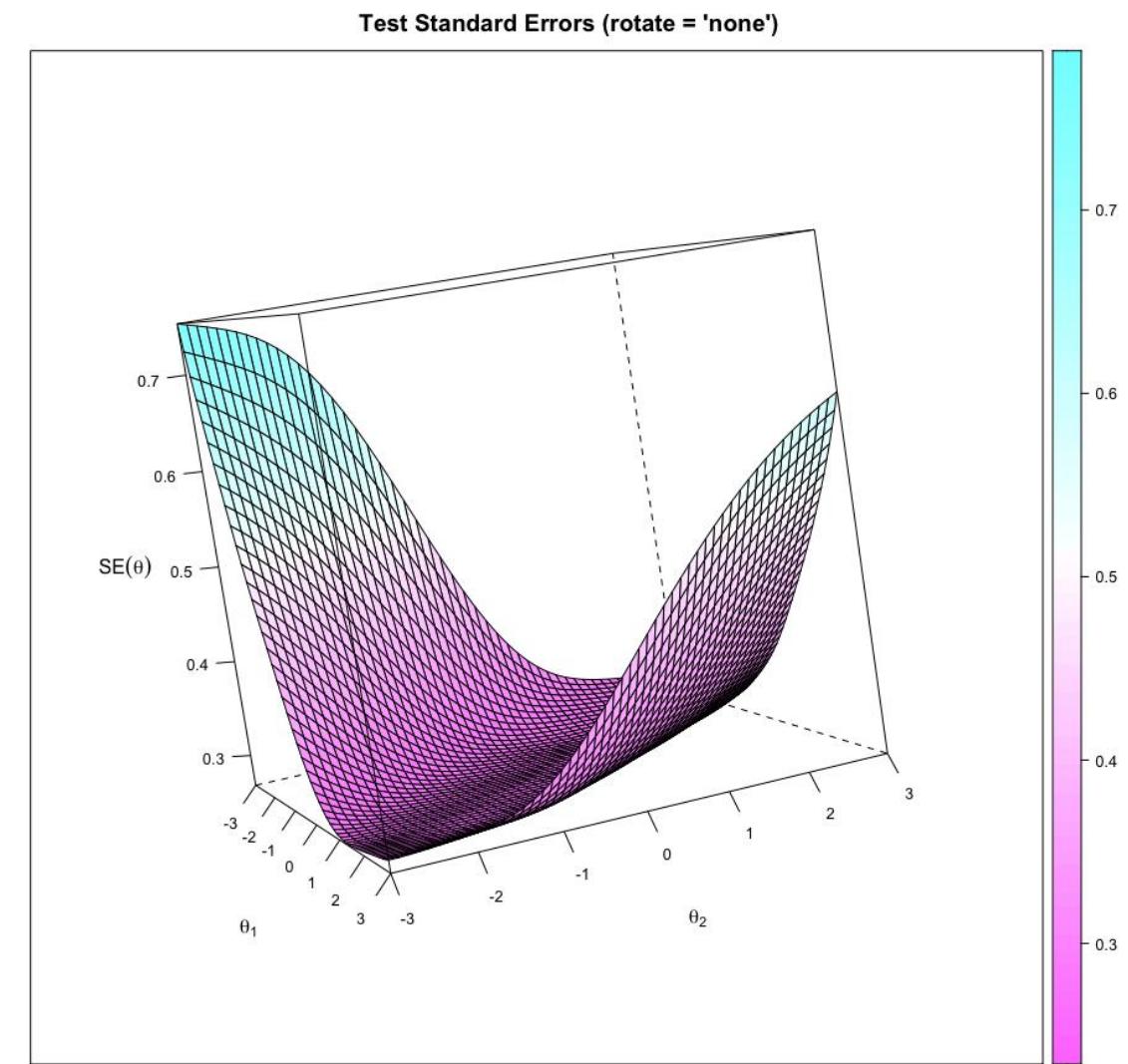
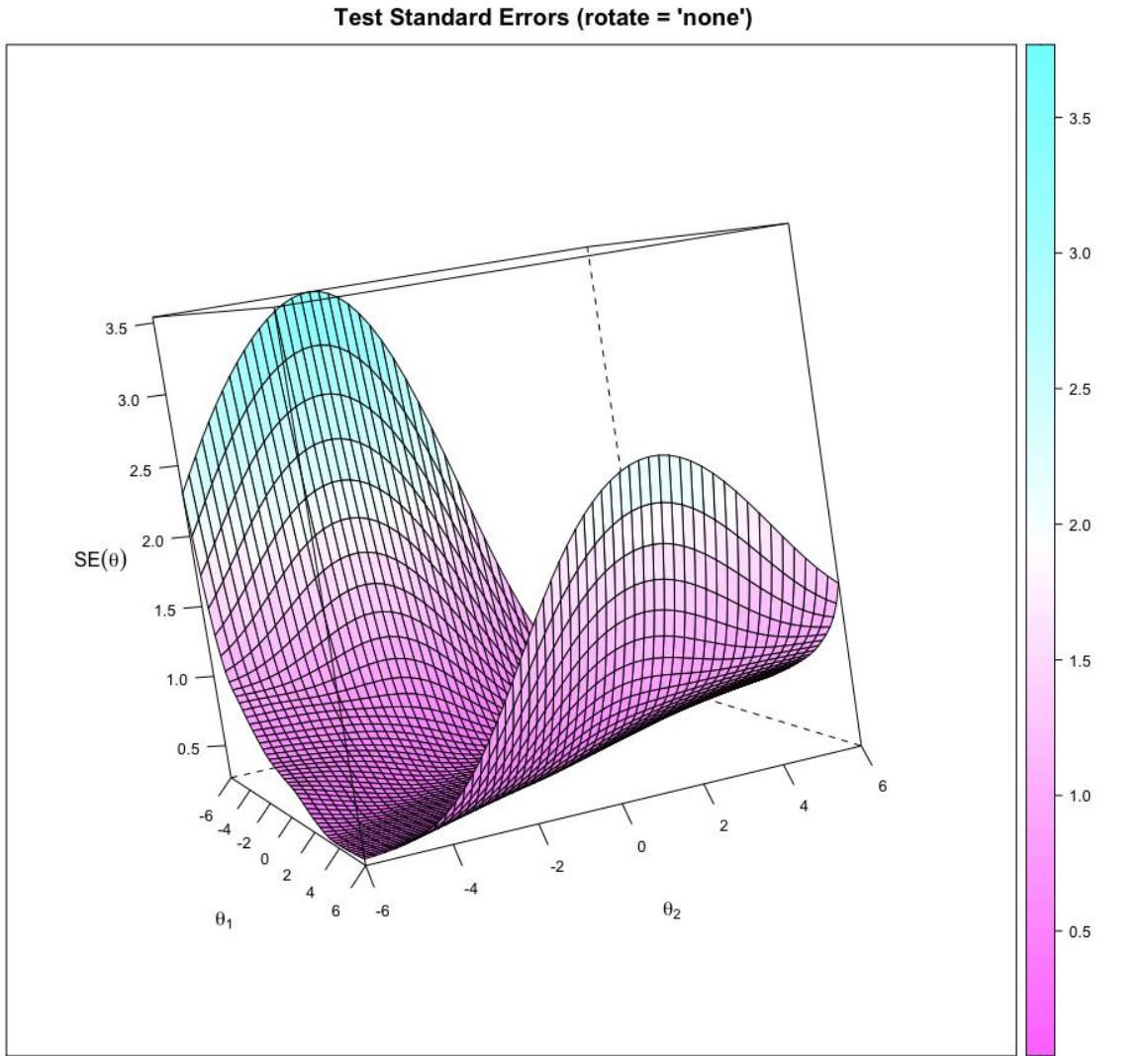
# Scale Information Surface (WeHI)



# Scale Error Surface (WeHI-roa)



# Scale Error Surface (WeHI)

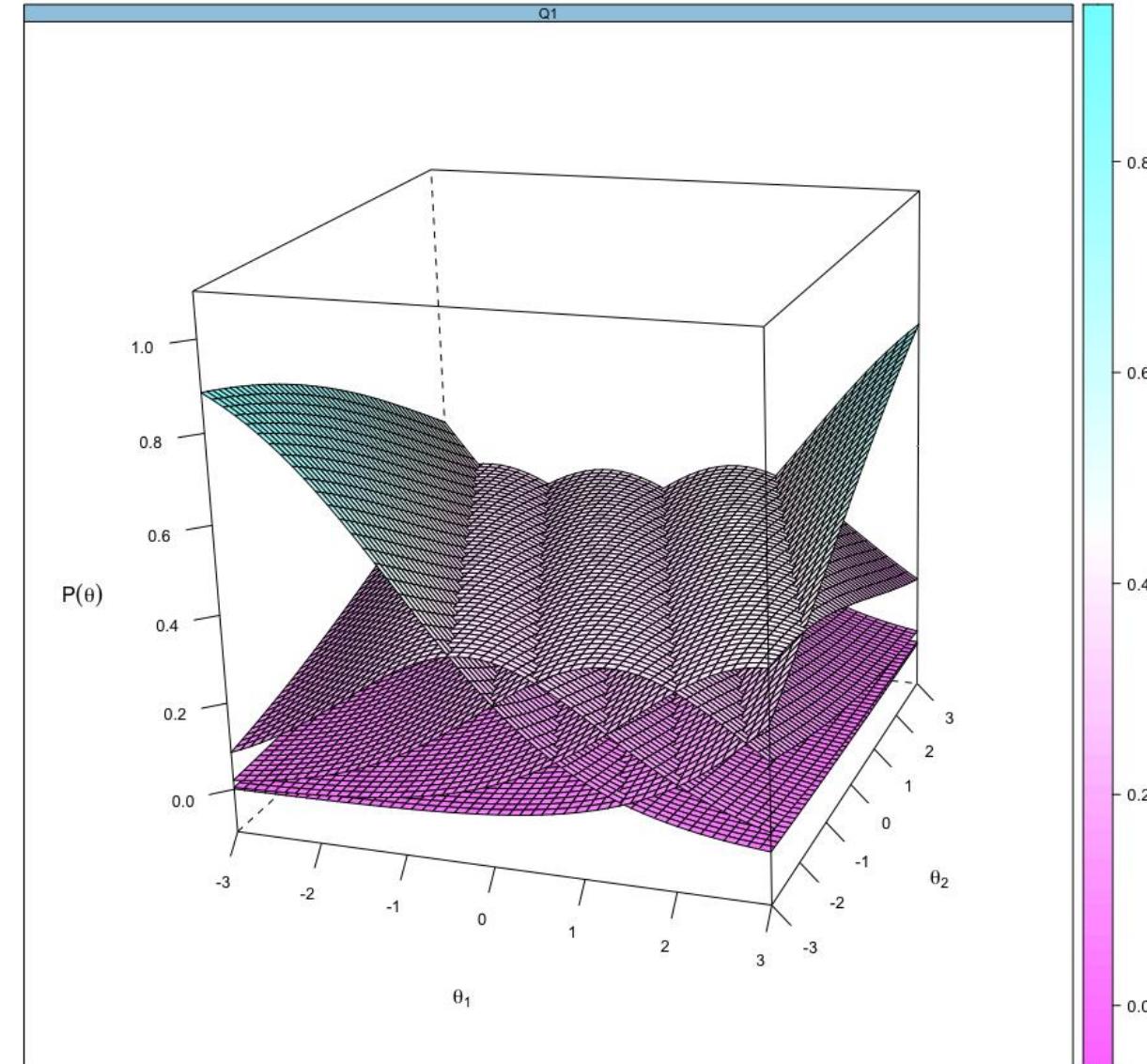


# **Category Response Surfaces (CRSs) for the WeHI**

# Item 1: Ngahere

**Which stage best reflects your current feeling of connection to the ngahere?**

\*Here ngahere refers to the bush and forests. This includes ngahere that you do and don't have whakapapa connections with.

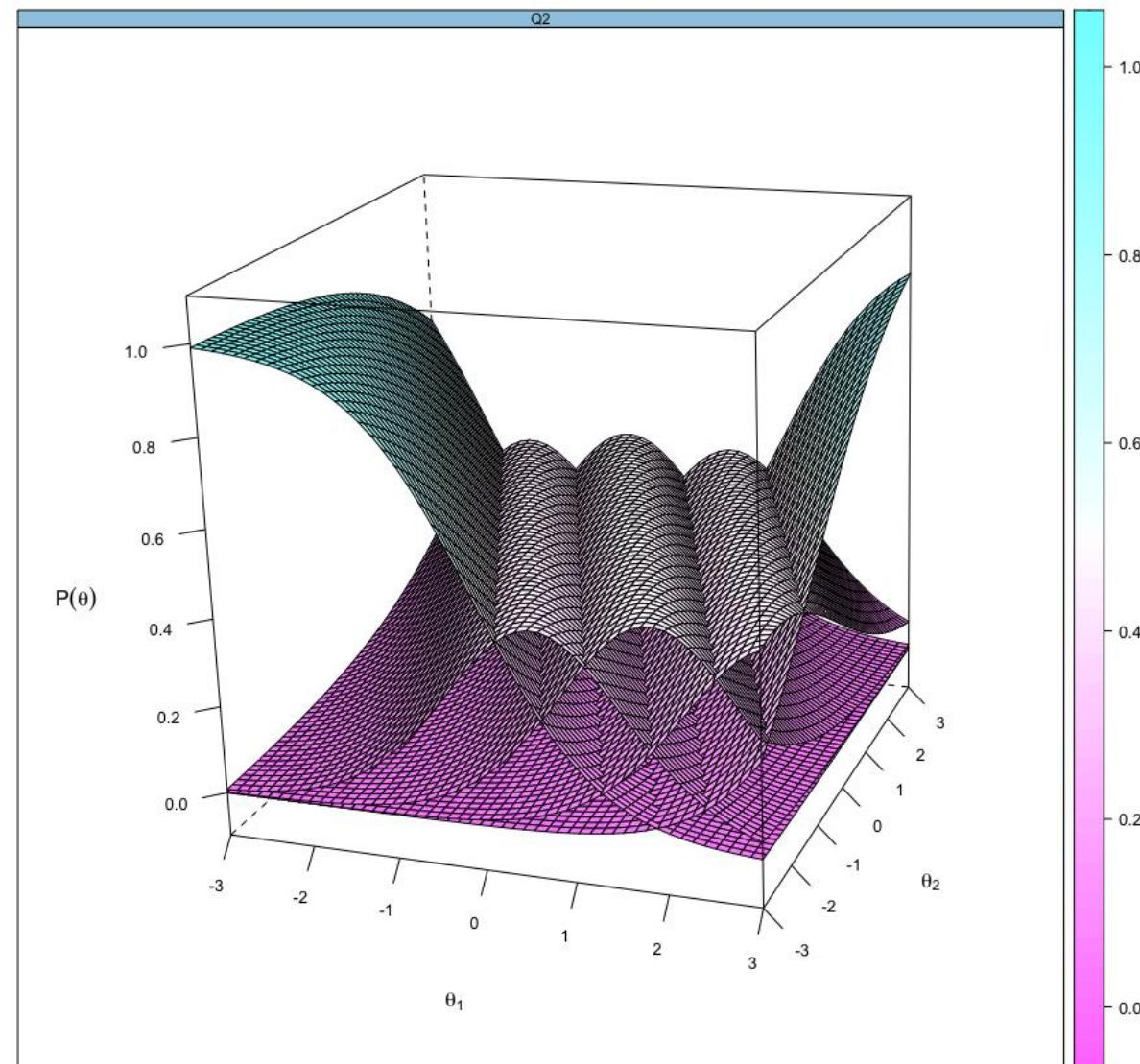


# Item 2: Whenua

**Which stage best reflects your current feeling of connection to the whenua?**

\*Here whenua refers to the land in all its shapes forms (including maunga).

This includes whenua that you do and don't have whakapapa connections with.

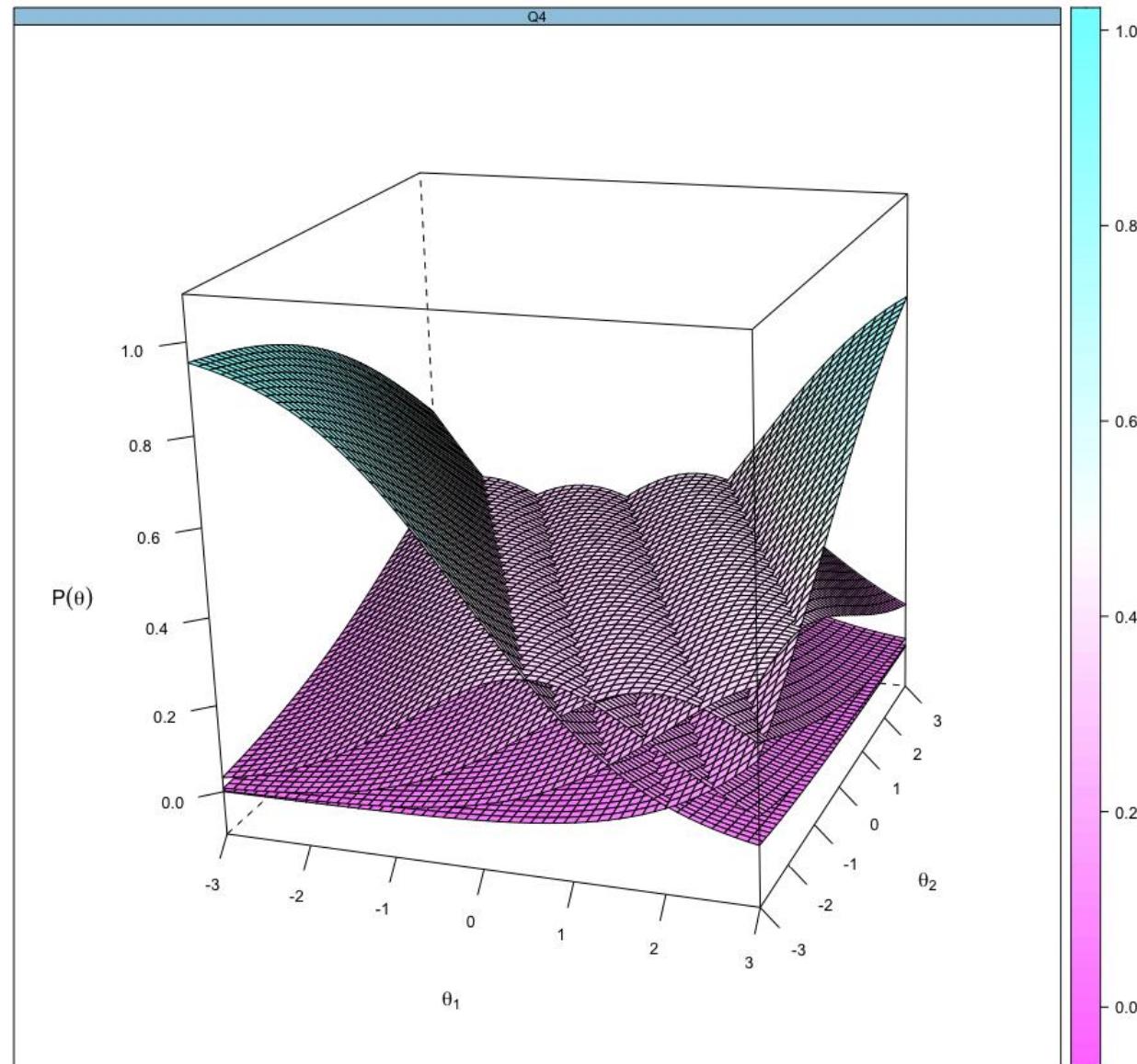


# Item 4: Wai māori

**Which stage best reflects your current feeling of connection to wai māori?**

\*Here wai māori refers to bodies of fresh water, and includes awa (streams/rivers) and roto (lakes).

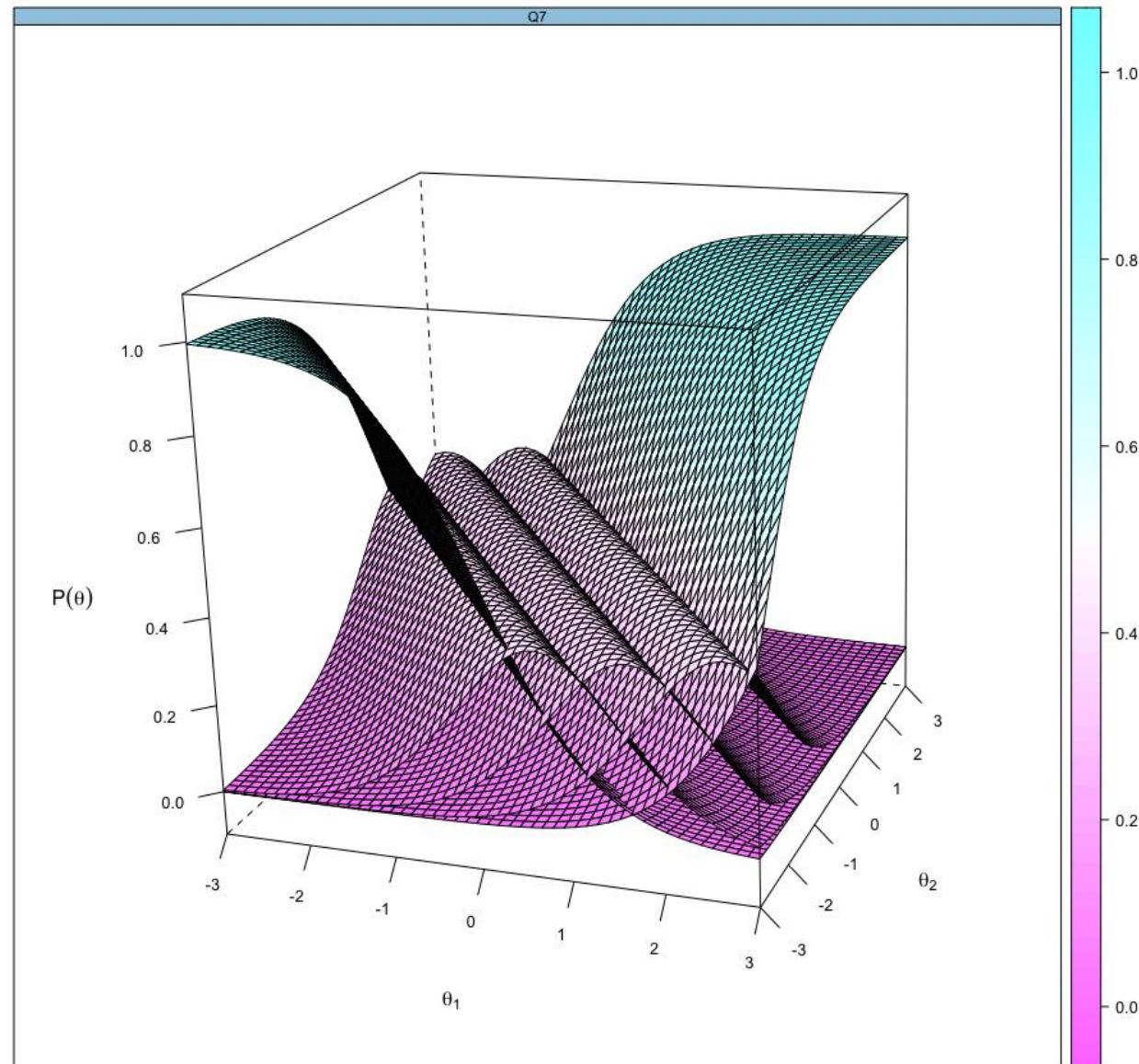
This includes the wai māori that you do and don't have whakapapa connections with.



# Item 7: Hapū

Which stage best reflects your current feeling of connection to your hapū?

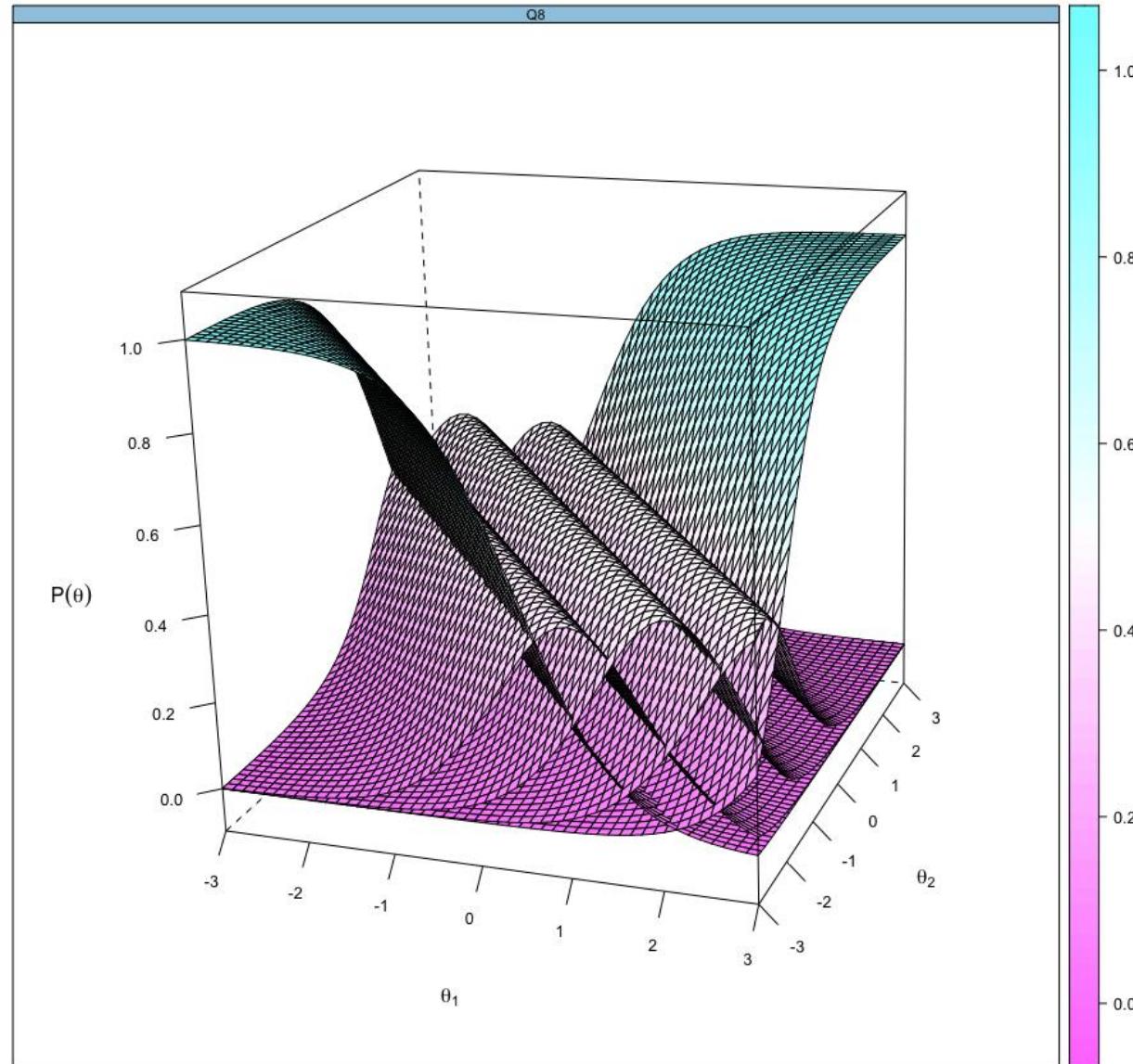
\*Here hapū refers to your sub-tribe(s).



# Item 8: Iwi

Which stage best reflects your current feeling of connection to your iwi?

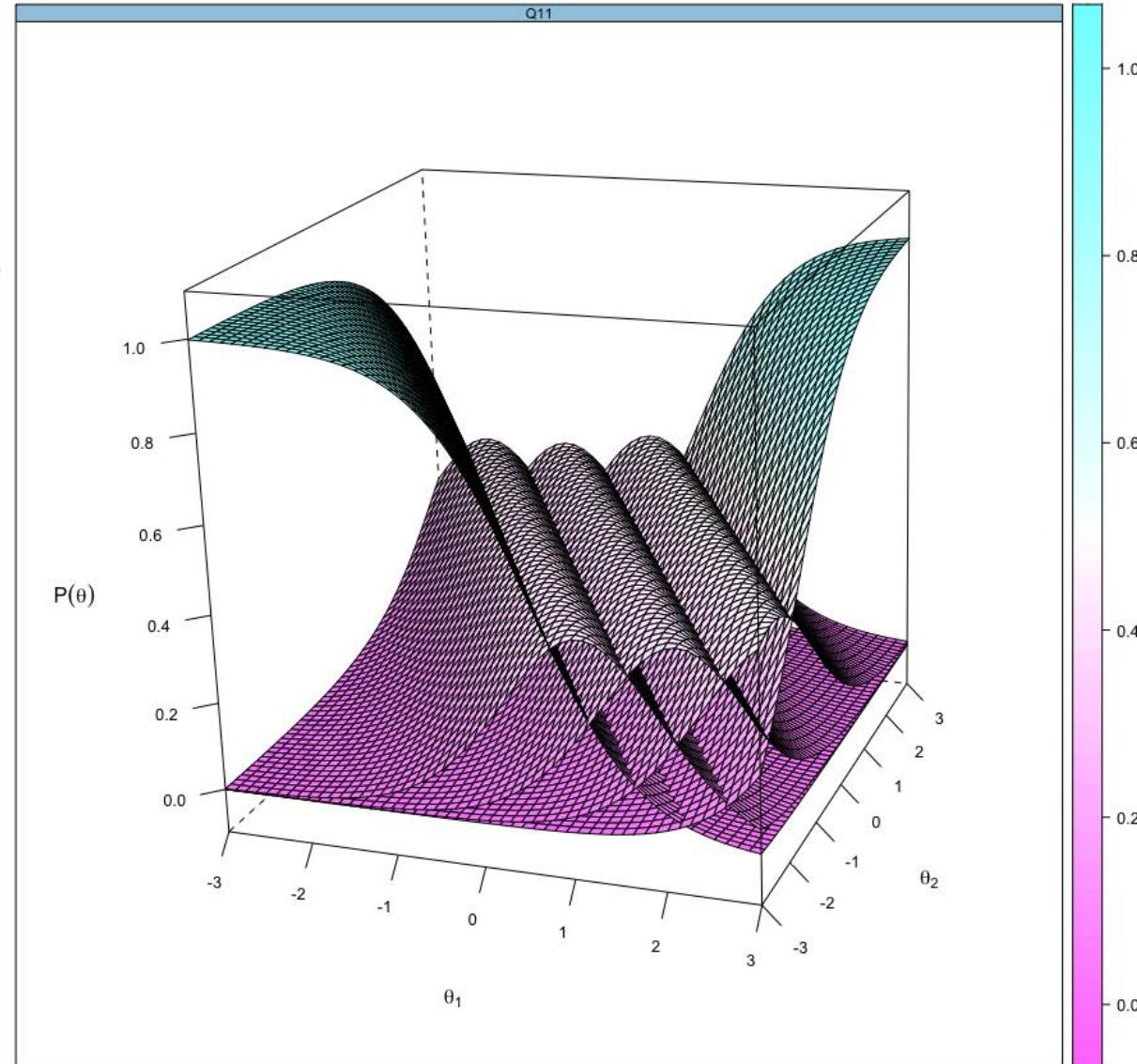
\*Here iwi refers to your tribe(s).



# Item 11: Tīpuna

Which stage best reflects your current feeling of connection to your tīpuna?

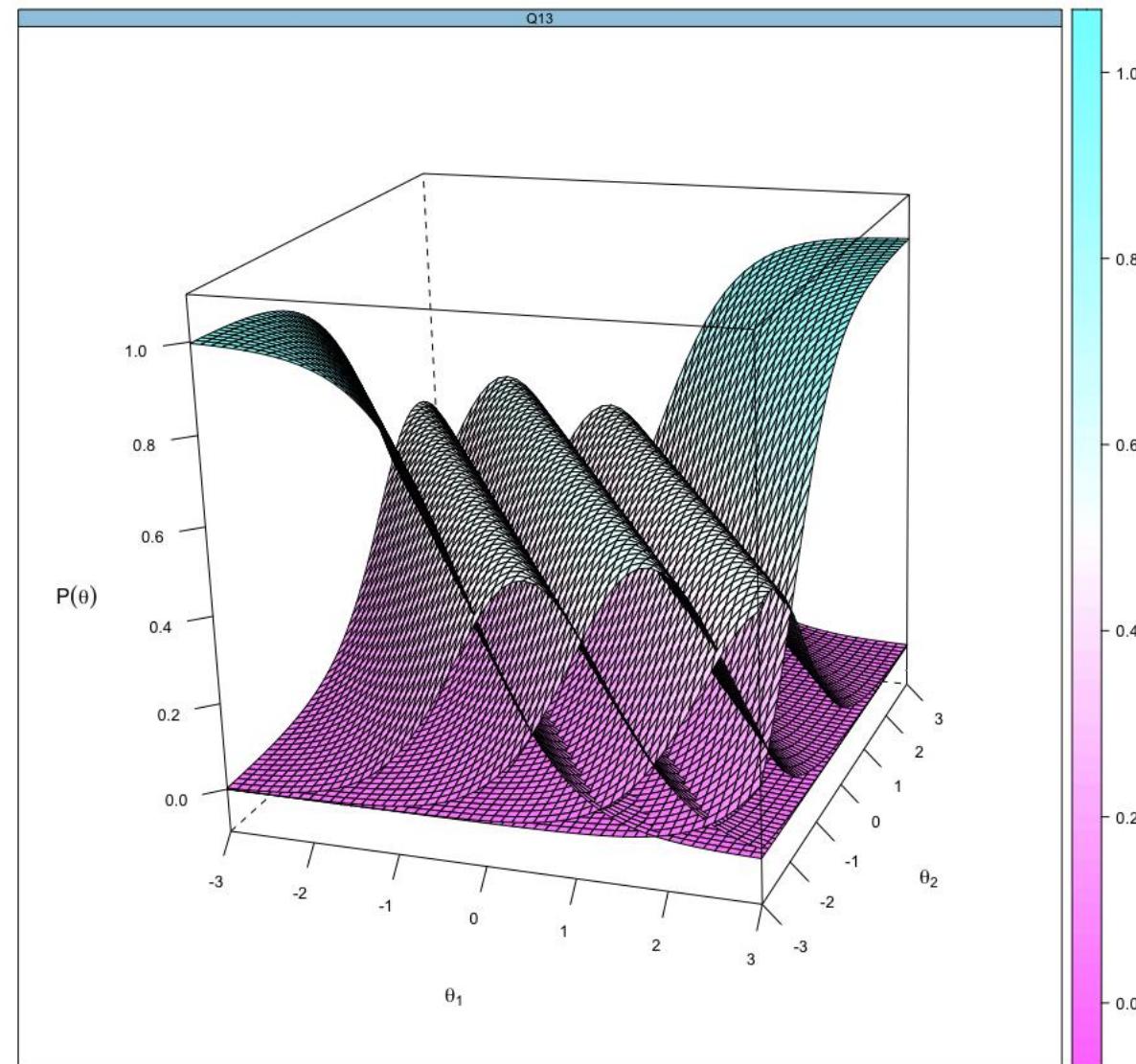
\*Here tīpuna refers to your ancestors.



# Item 13: Mātauranga

Which stage best reflects your current feeling of connection to your mātauranga Māori?

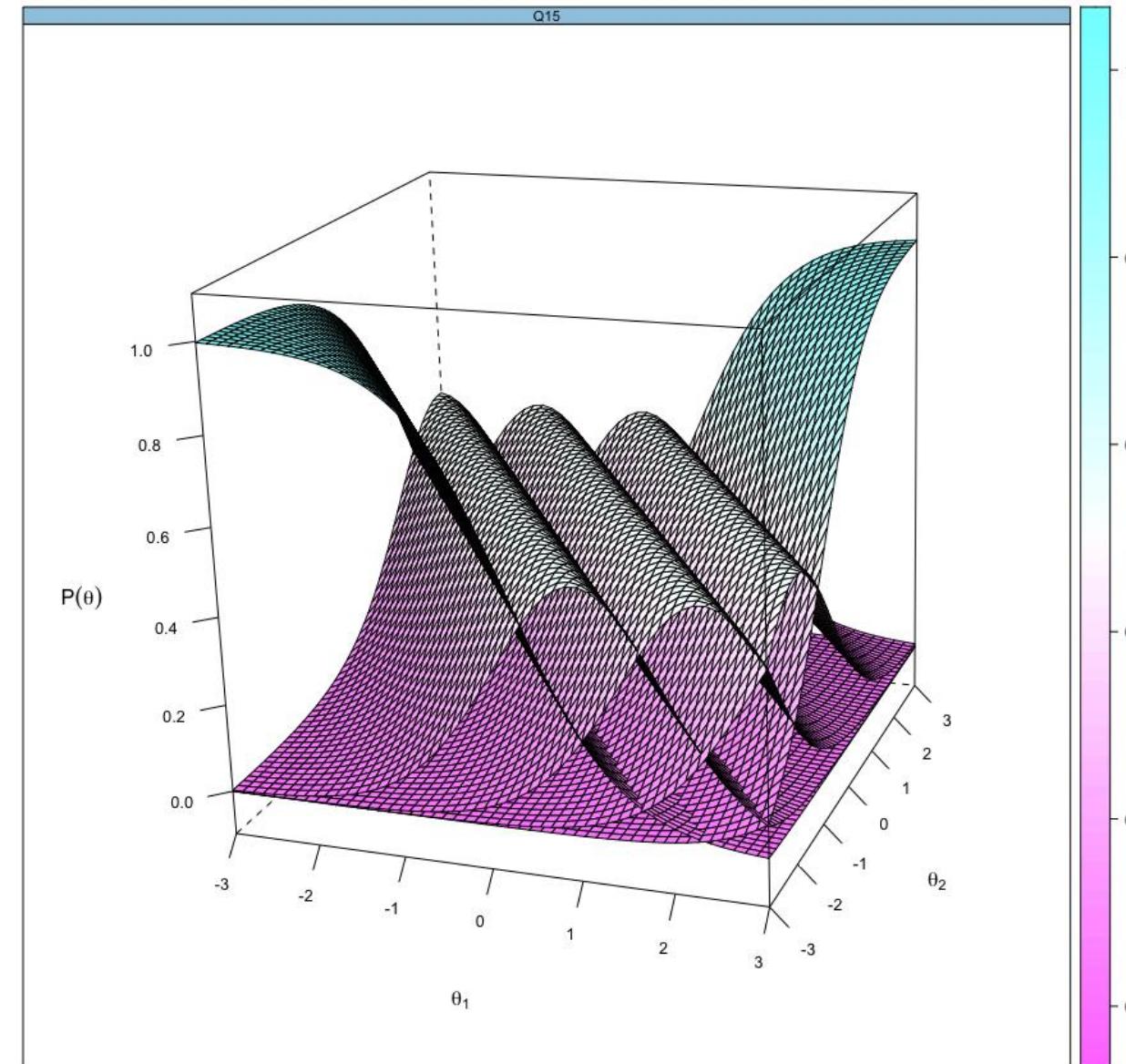
\*Here mātauranga Māori refers to both the contemporary and traditional Māori knowledge, and includes means of transmission, and storage.



# Item 15: Tikanga

**Which stage best reflects your current feeling of connection to your tikanga Māori?**

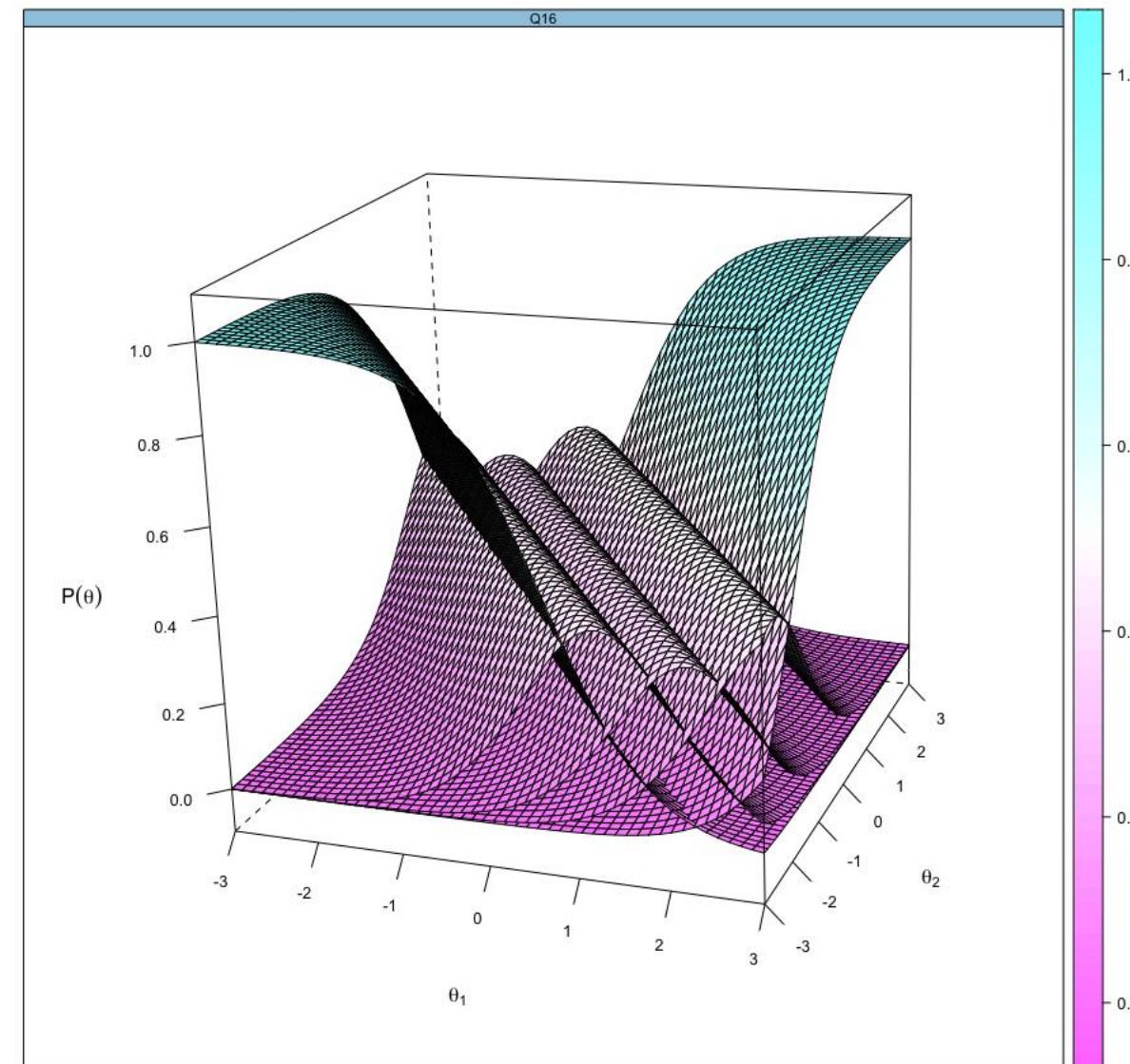
Here tikanga Māori refers to the customary protocols, and practices that drive Māori ways of being.



# Item 16: Tūrangawaewae

Which stage best reflects your current feeling of connection to your tūrangawaewae?

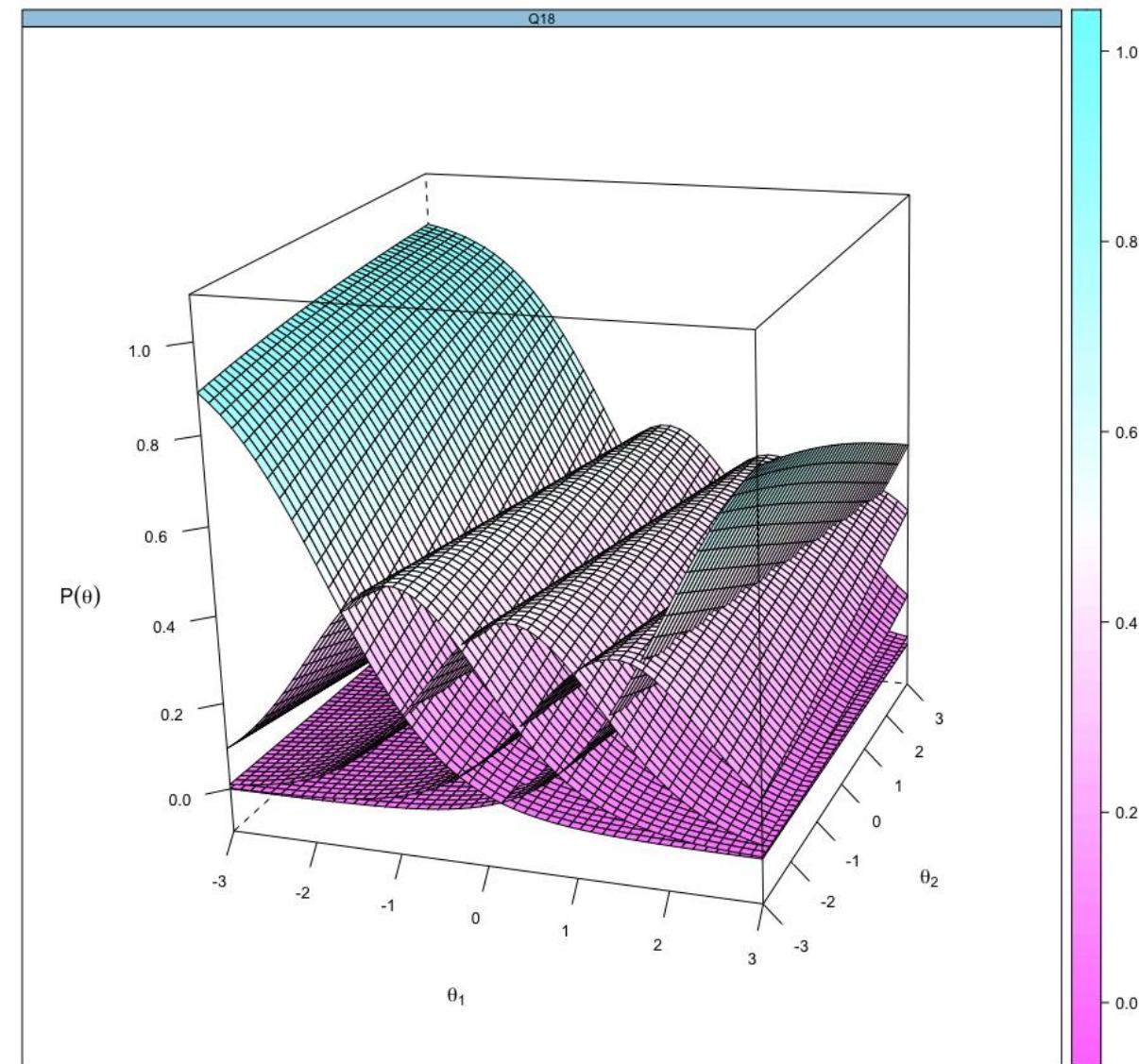
\*Here tūrangawaewae refers to traditional places of belonging like marae and urupā as well as contemporary places like suburbs and family homes.



# Item 18: Tū tangata

Which stage best reflects what you think your current capacities are to tū tangata?

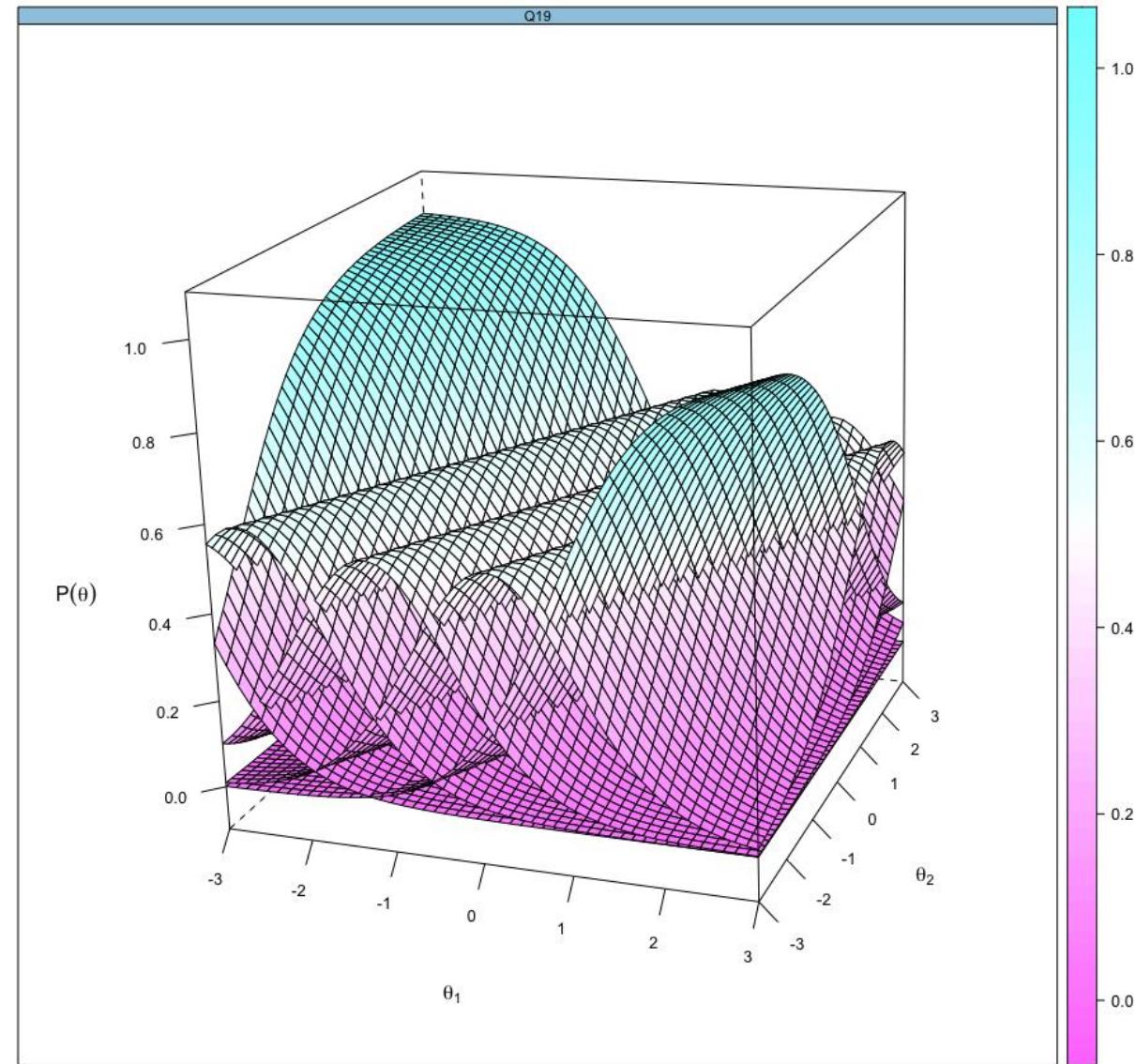
\*Here tū tangata refers to standing in the fullness of who you are. Specifically, it relates to expressing who you are and includes all forms of identity including ethnic, cultural, gender, and sexual.



# Item 19: Whiriwhiri

Which stage best reflects what you think your current capacities are to whiriwhiri?

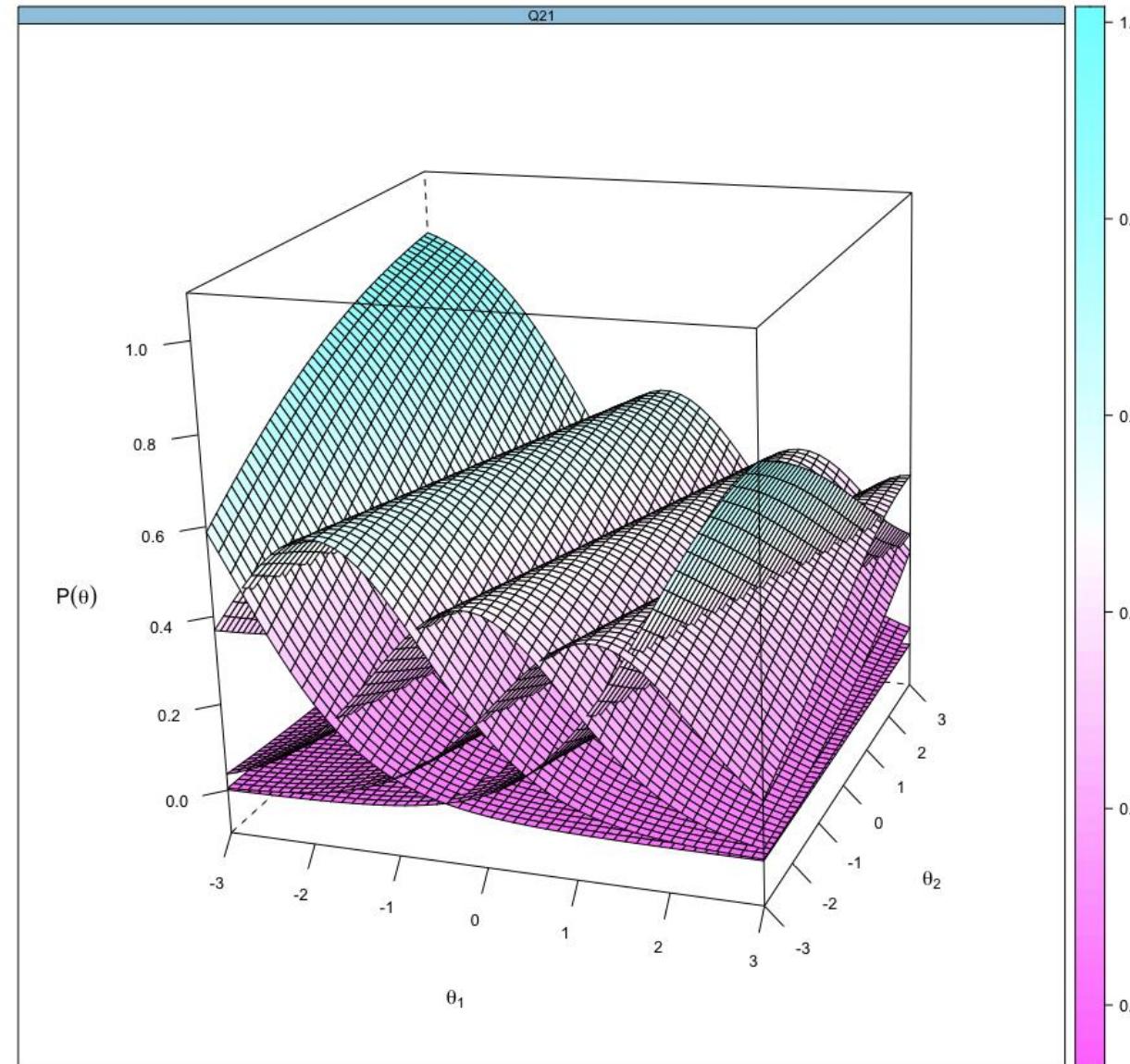
\*Here whiriwhiri refers to choosing or deciding, and relates to the control you think you have over how your life unfolds.



# Item 21: Tū toa

**Which stage best reflects what you think your current capacities are to tū toa?**

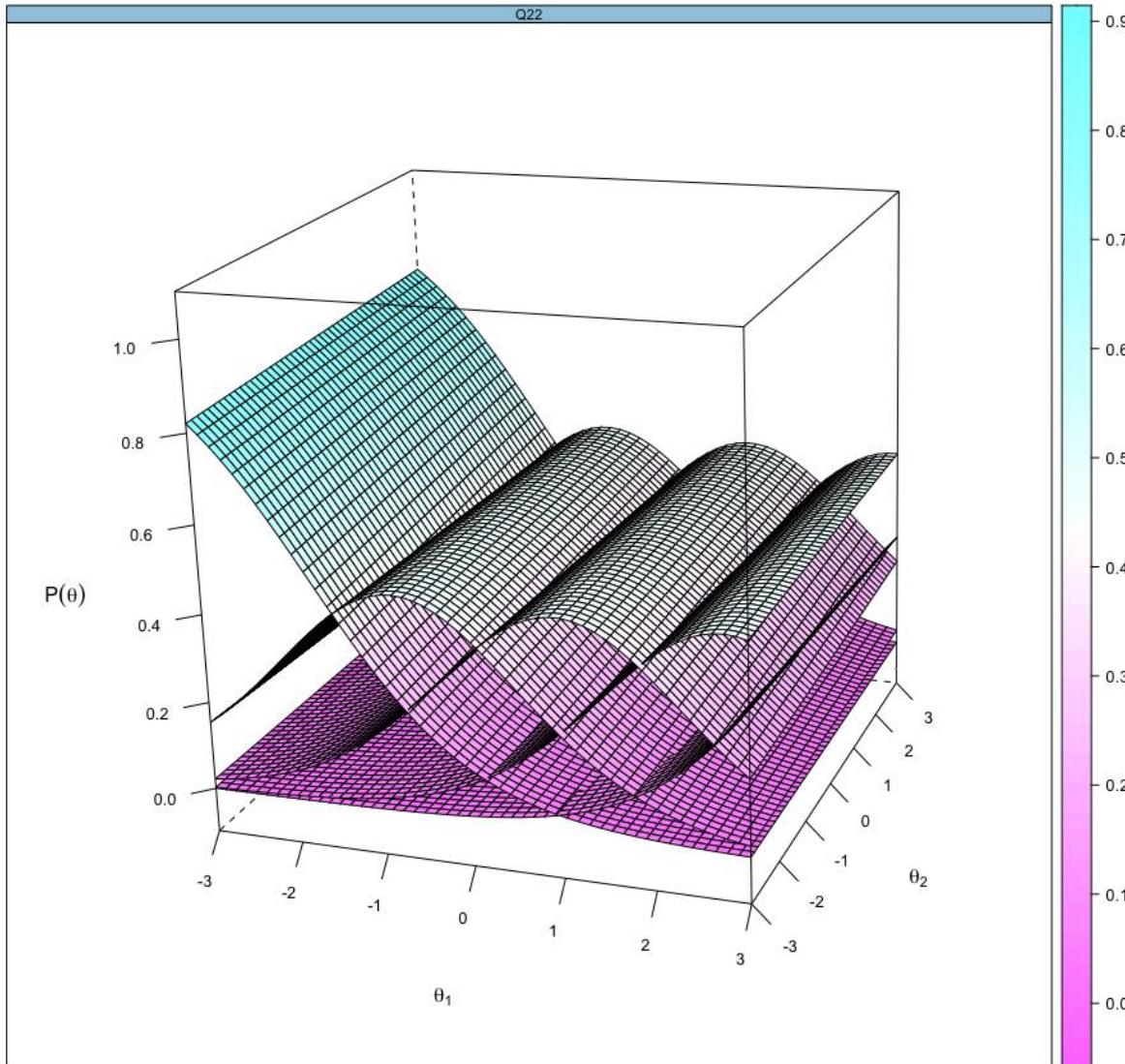
\*Here tū toa refers to standing confident, accomplished, or capable, in a skill, or area of expertise. This can include things that you do for work or hobbies.



# Item 22: Whai Mōhiotanga

Which stage best reflects what you think your current capacities are to meet needs related to whai mōhiotanga?

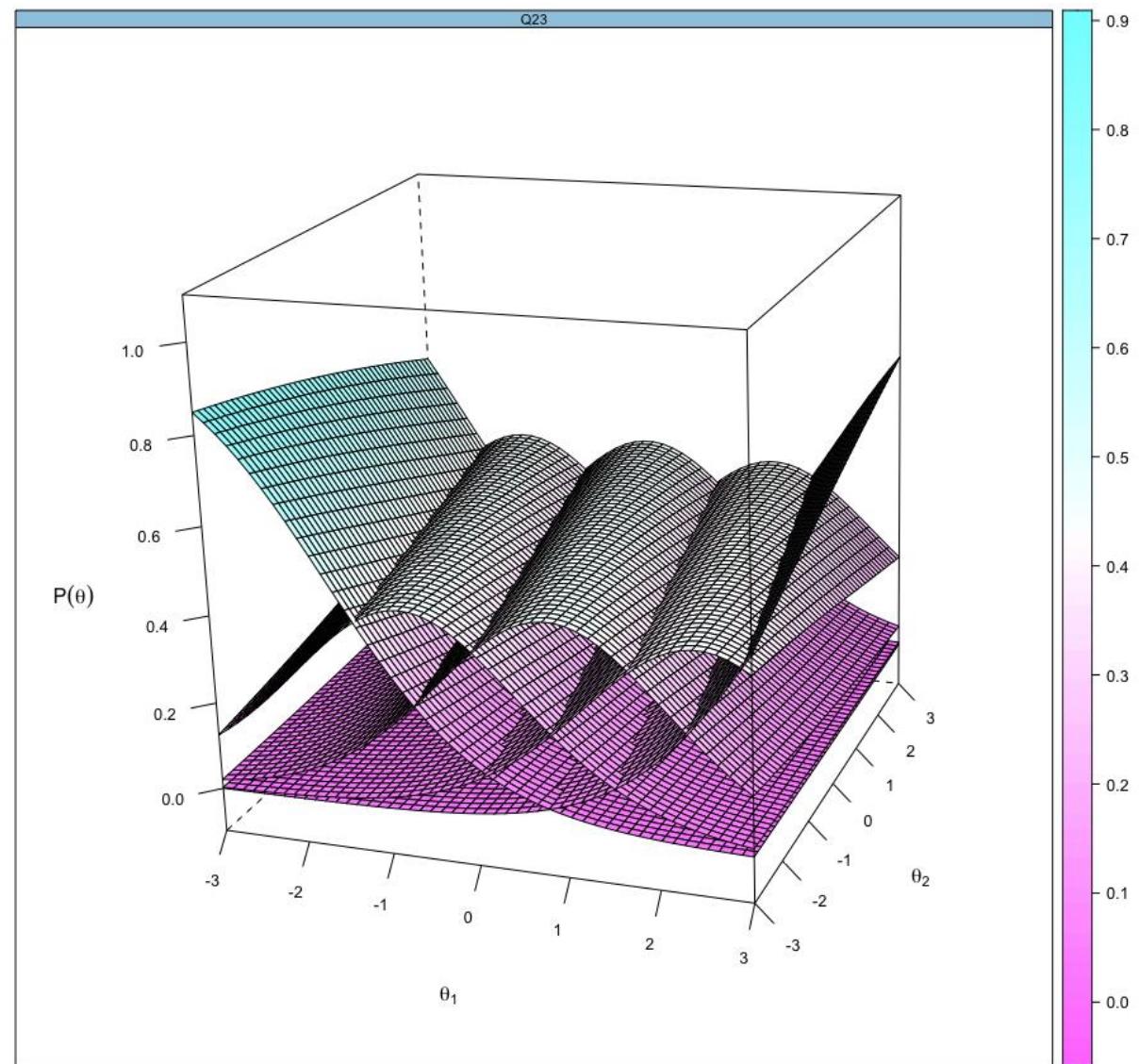
\*Here whai mōhiotanga refers to gaining knowledge, and includes all types of learning.



# Item 23: Tuku Mōhiotanga

Which stage best reflects what you think your current capacities are to meet needs related to tuku mōhiotanga?

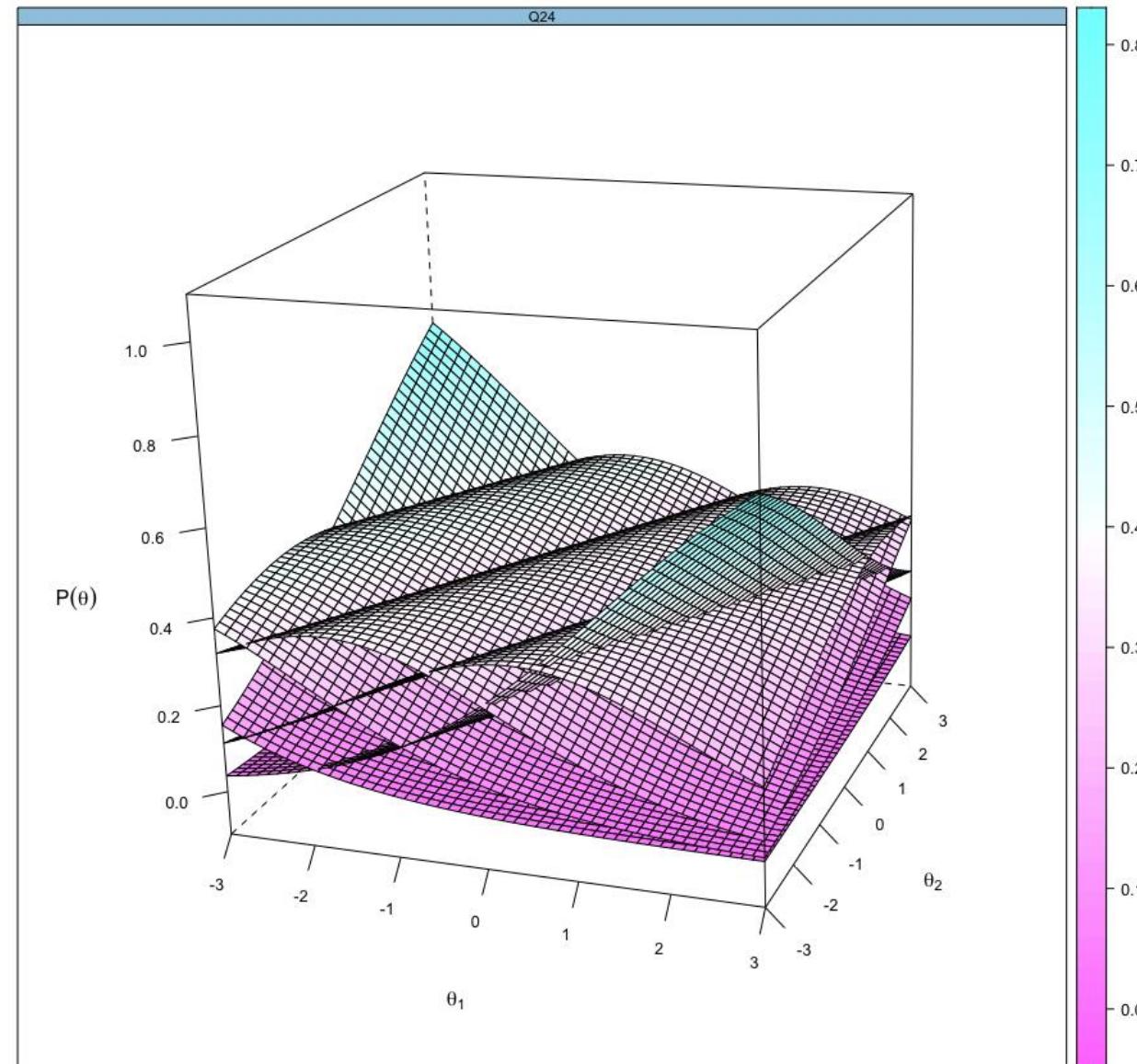
\*Here tuku mōhiotanga refers to the passing on of knowledge, and relates to all types of teaching.



# Item 24: Pūtea

Which stage best reflects what you think your current capacities are to meet needs related to pūtea?

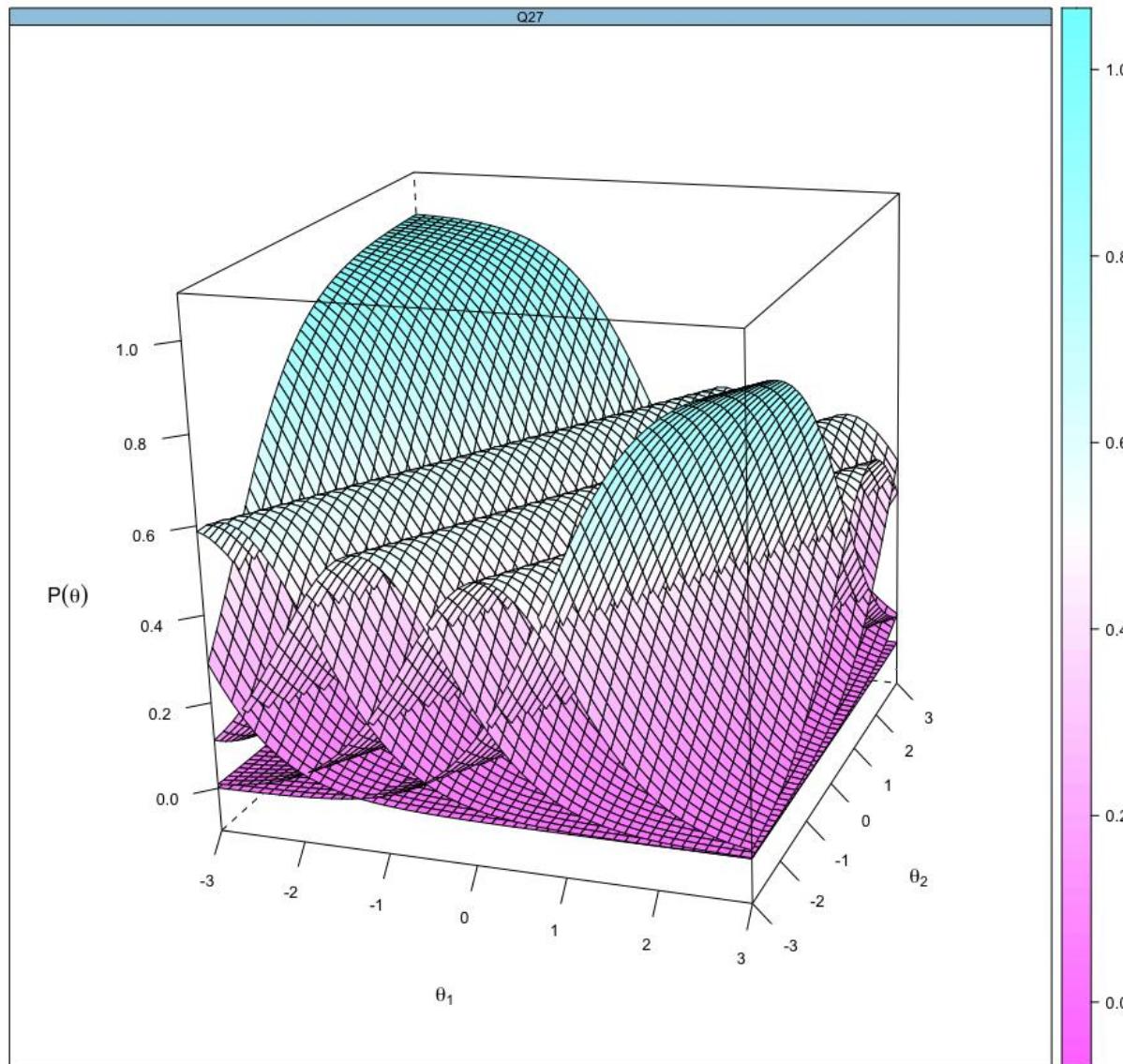
\*Here pūtea refers to money, and relates to finances.



# Item 27: Kare ā-roto

Which stage best reflects your current capacity to manage your kare ā-roto?

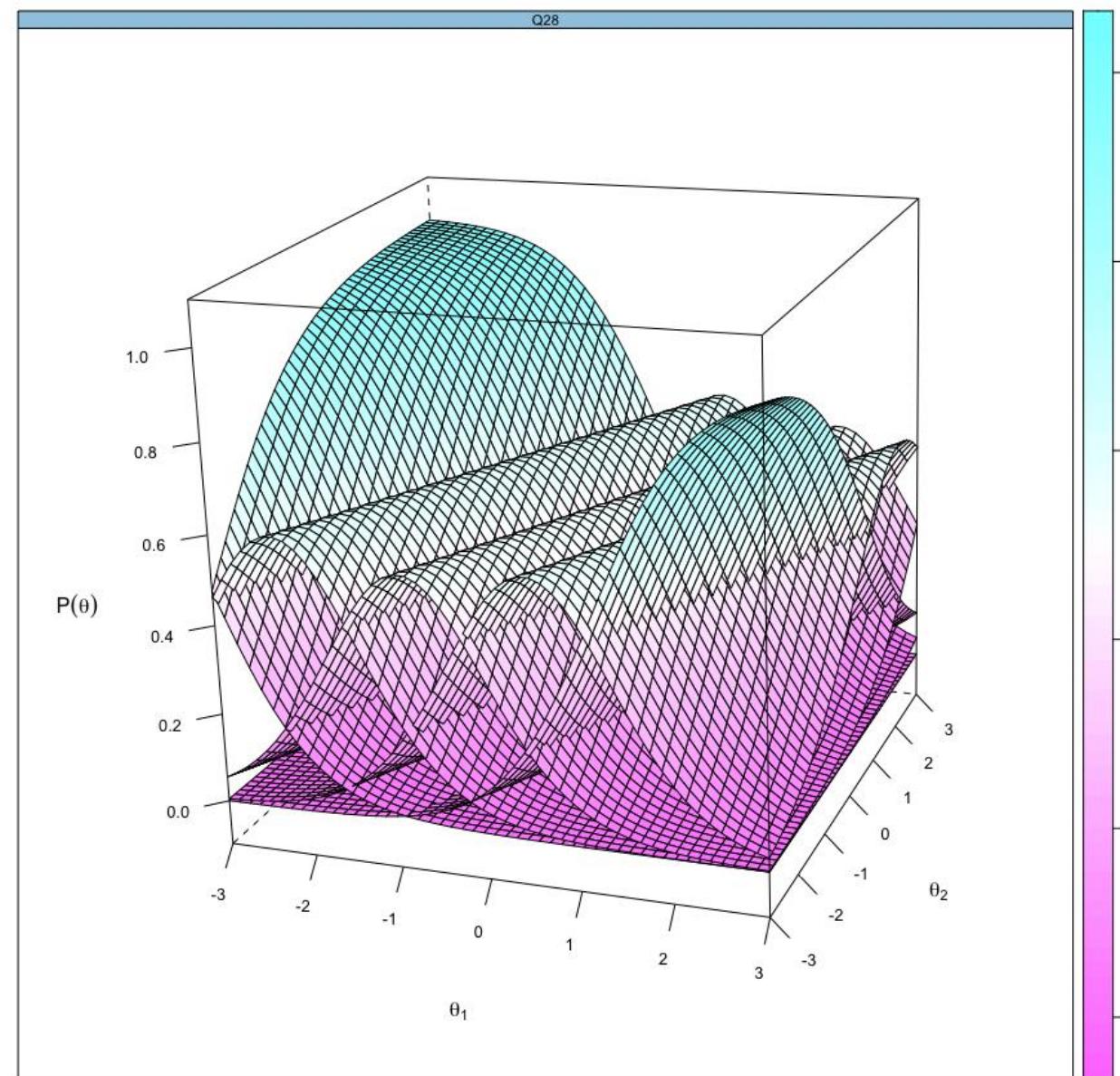
\*Here kare ā-roto refer to your emotions.



# Item 28: Whakaaro

Which stage best reflects your current capacity to manage your whakaaro?

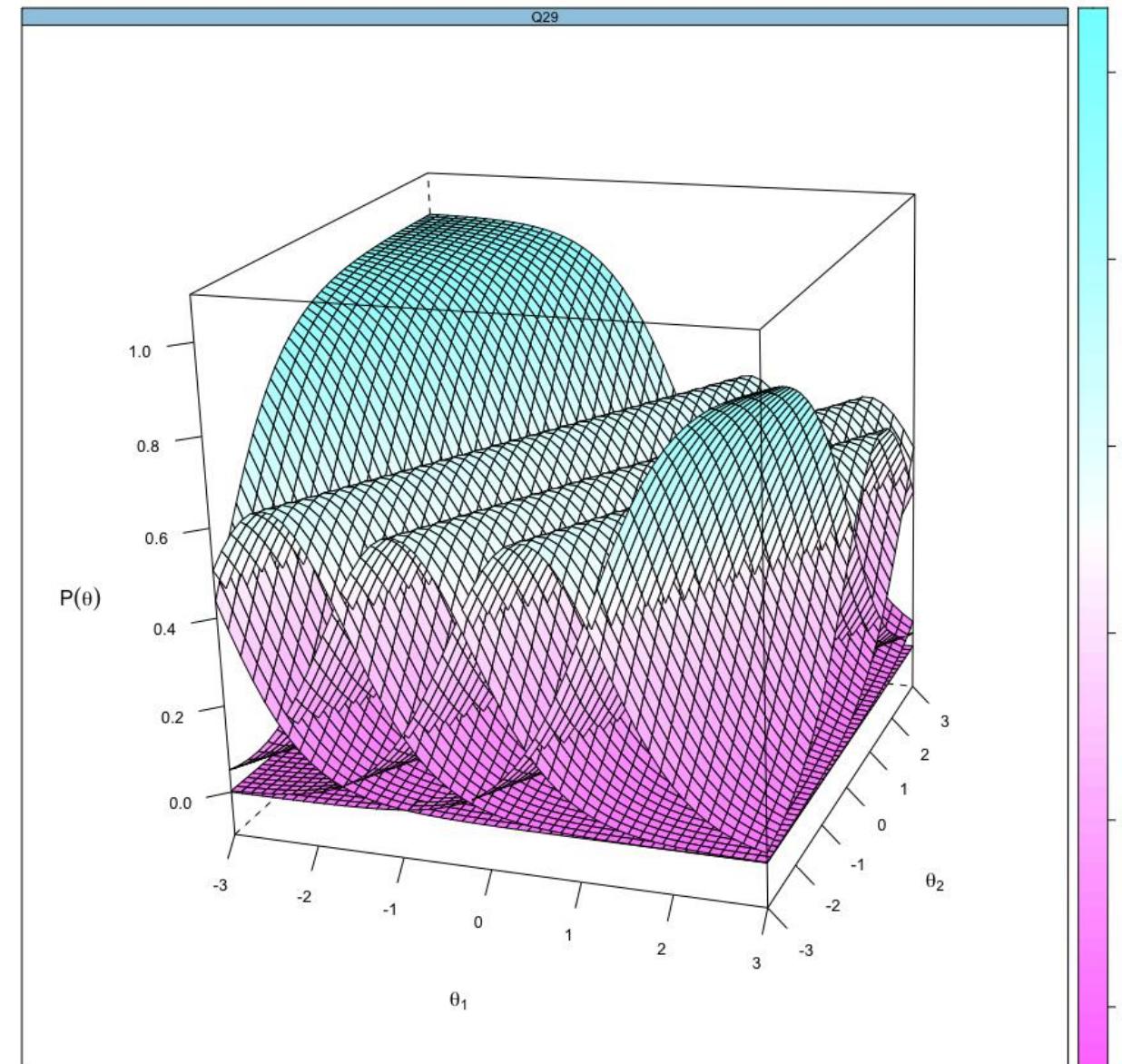
\*Here whakaaro refers to your thoughts.



# Item 29: Waiaro

**Which stage best reflects your current capacity to manage your waiaro?**

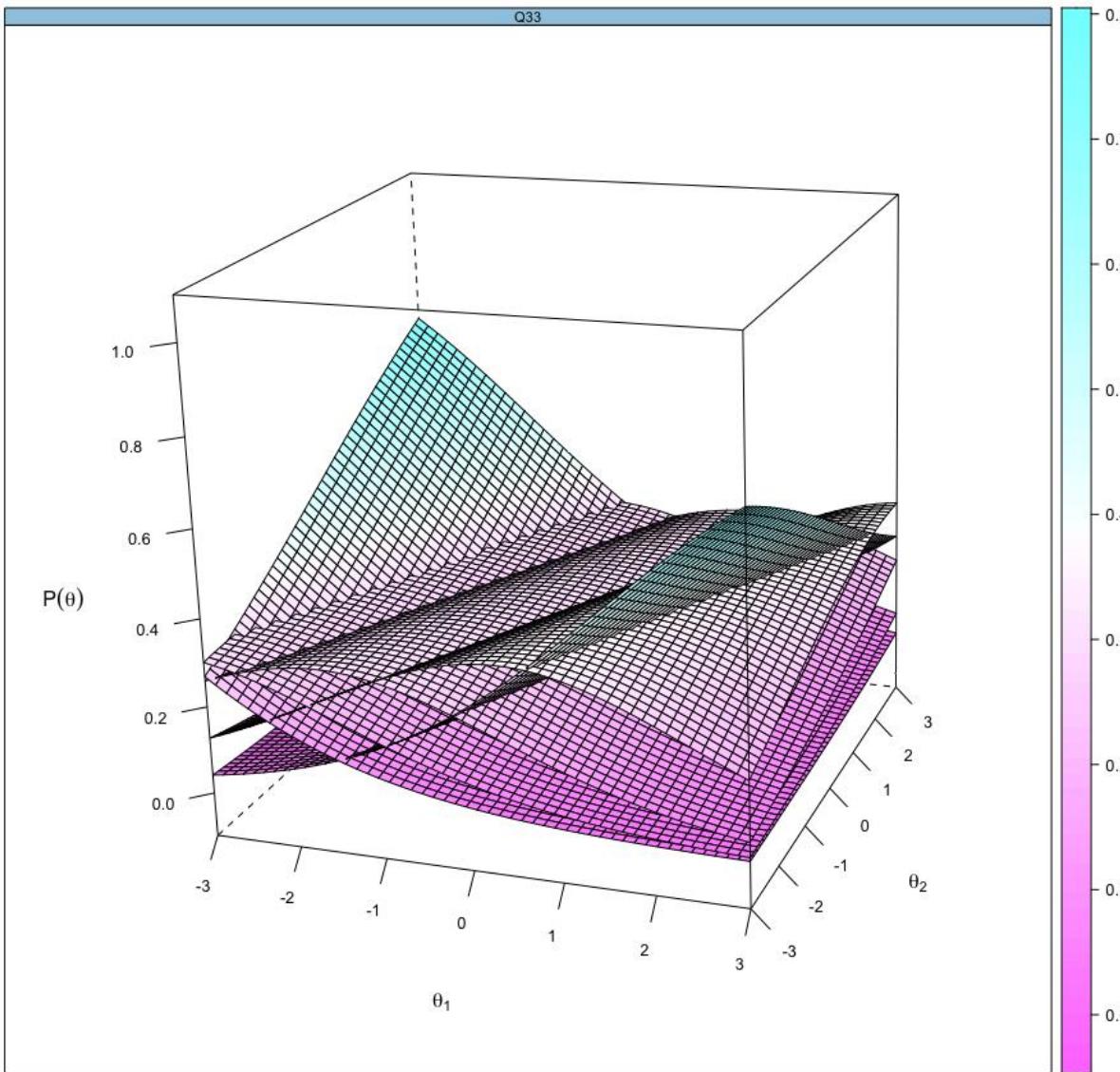
\*Here waiaro refer to your attitudes and outlook.



# Item 33: Kori tinana

Which stage best reflects your current lifestyle choices related to kori tinana?

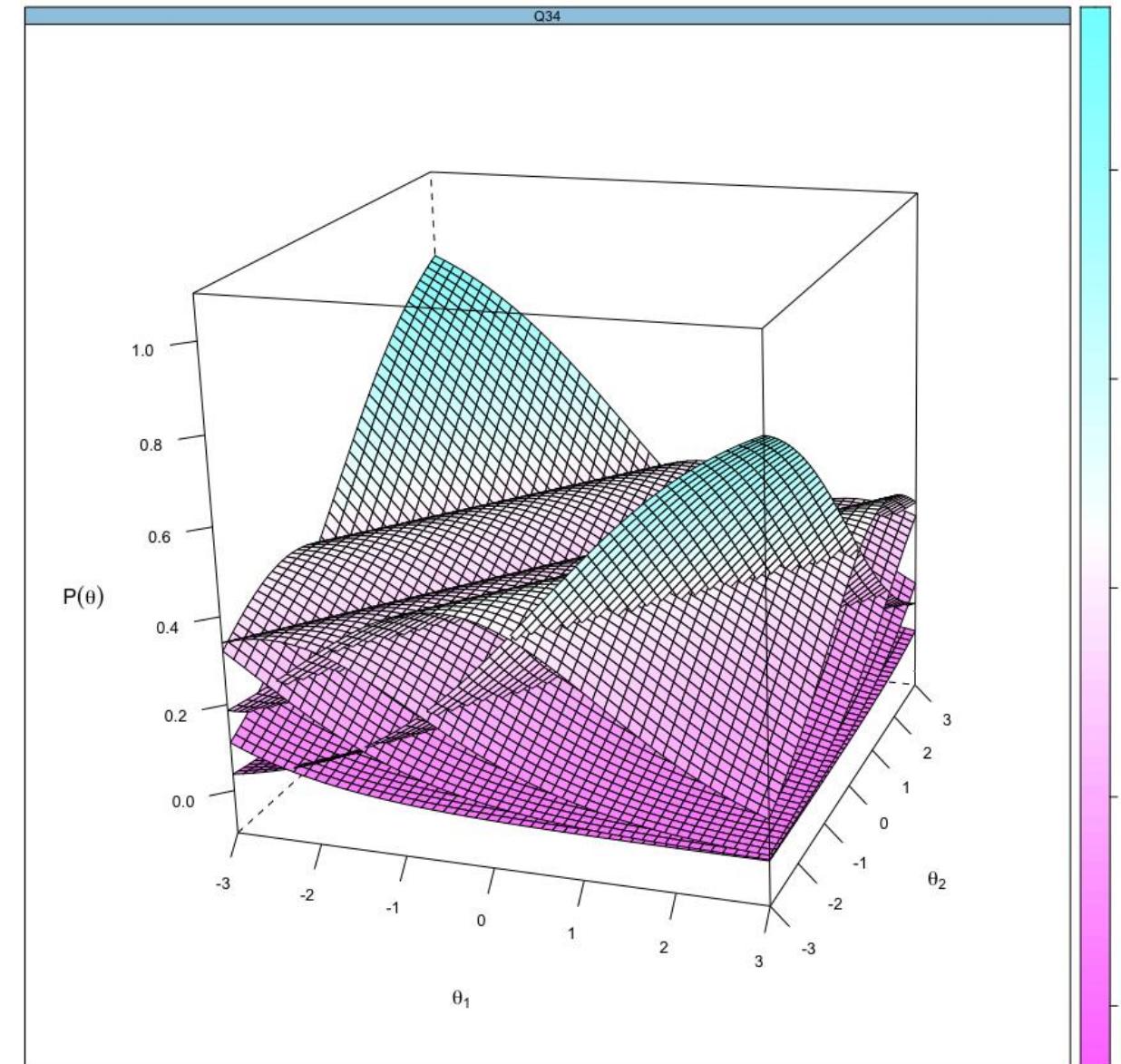
\*Here kori tinana refers to moving your body, and includes all forms of exercise and physical activity.



# Item 34: Moe

Which stage best reflects  
the your current lifestyle choices related  
to moe?

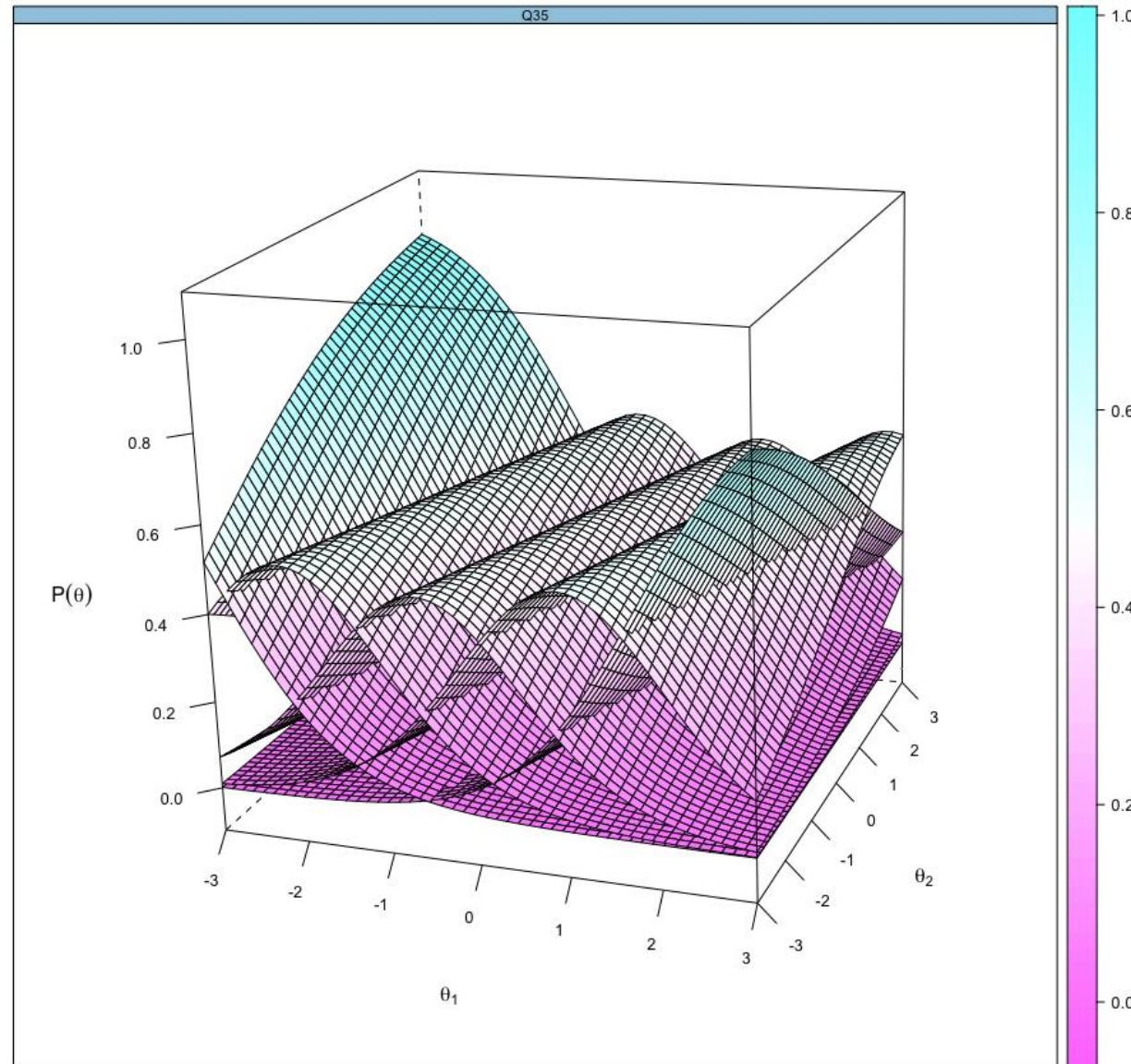
\*Here moe refers to sleep.



# Item 35: Kanohi kitea

Which stage best reflects  
your current lifestyle choices related  
to kahohi kitea?

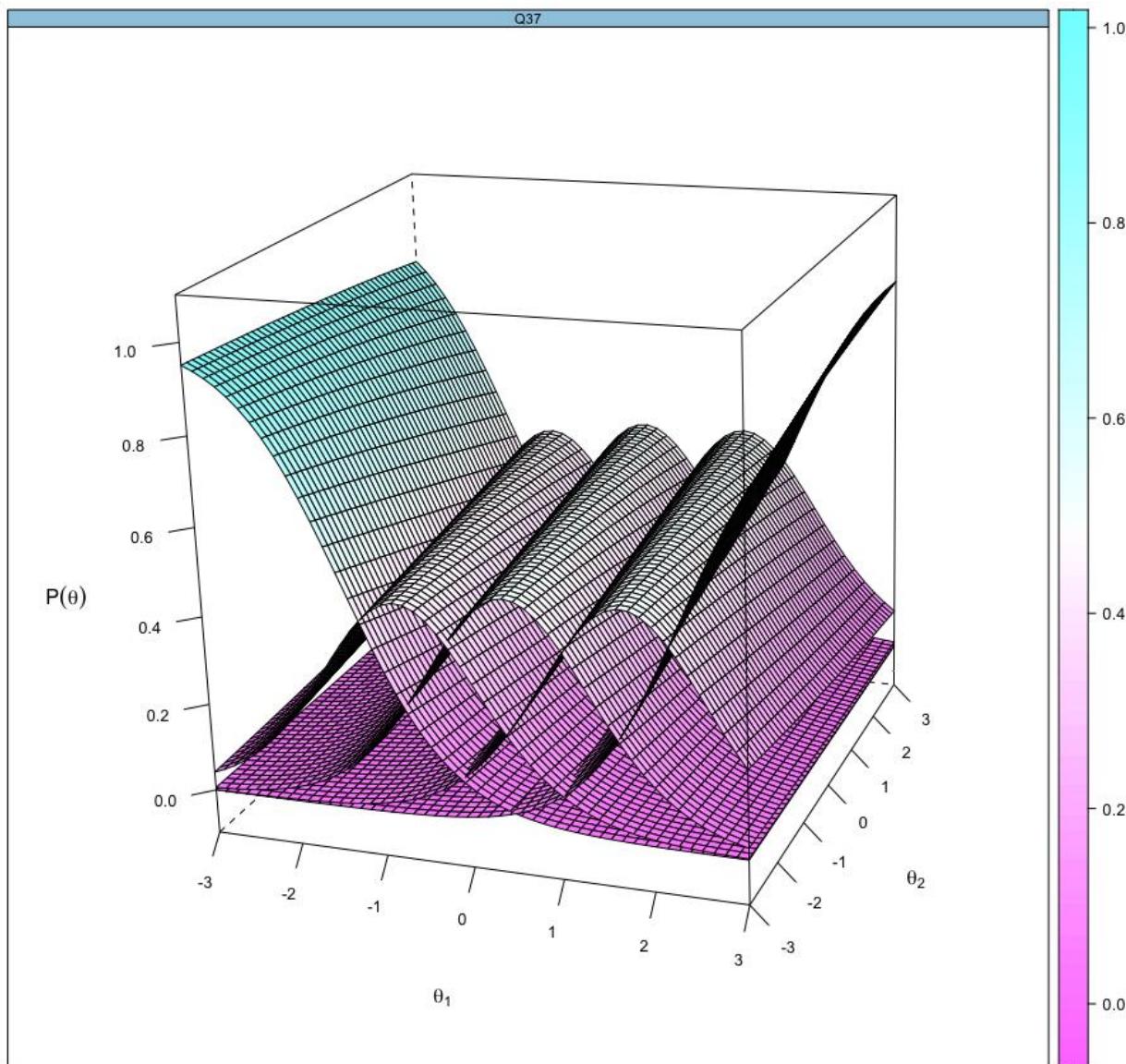
\*Here kanohi kitea refers to being physically  
present and having your face seen by others.



# **Item 37: Wāhi wairua**

# Which stage best reflects your current lifestyle choices related to being in wāhi wairua?

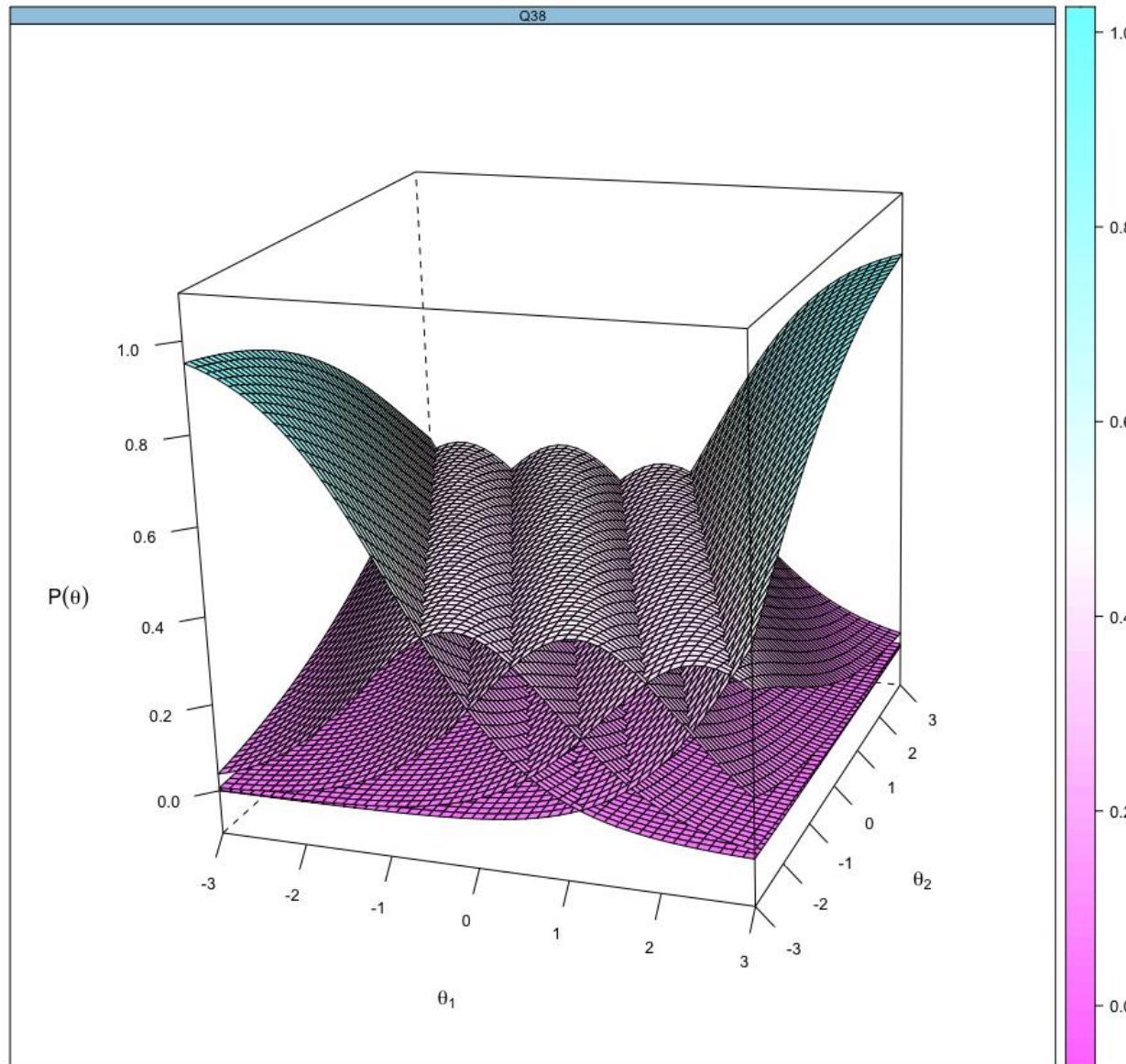
Here wāhi wairua refers to spaces and places where wairua as you understand it is nurtured.



# Item 38: Atua

Which stage best reflects  
your current lifestyle choices related to  
connecting with atua?

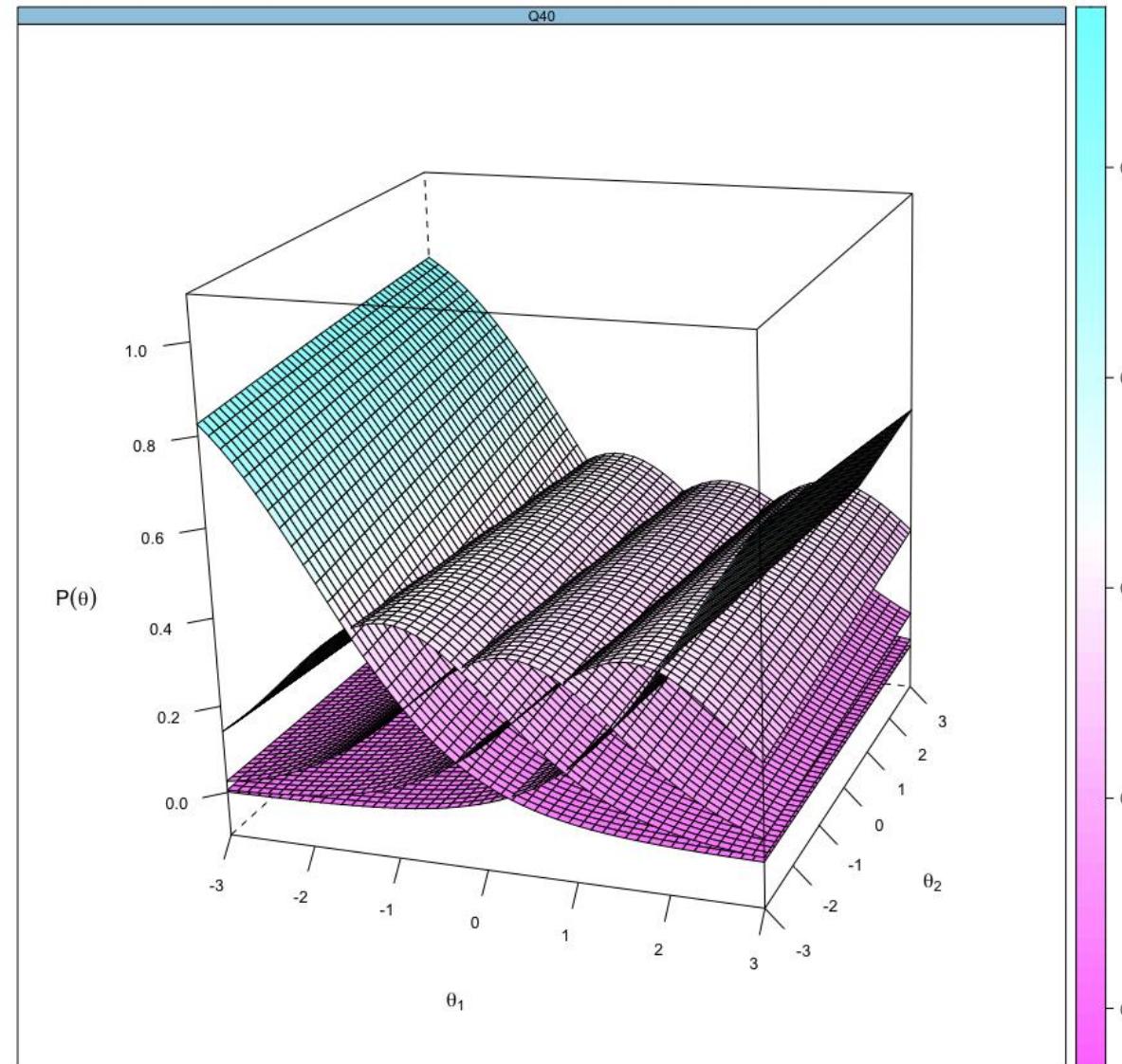
\*Here atua can refer to ancestors of influence,  
personifications of environmental domains,  
deities, or god(s).



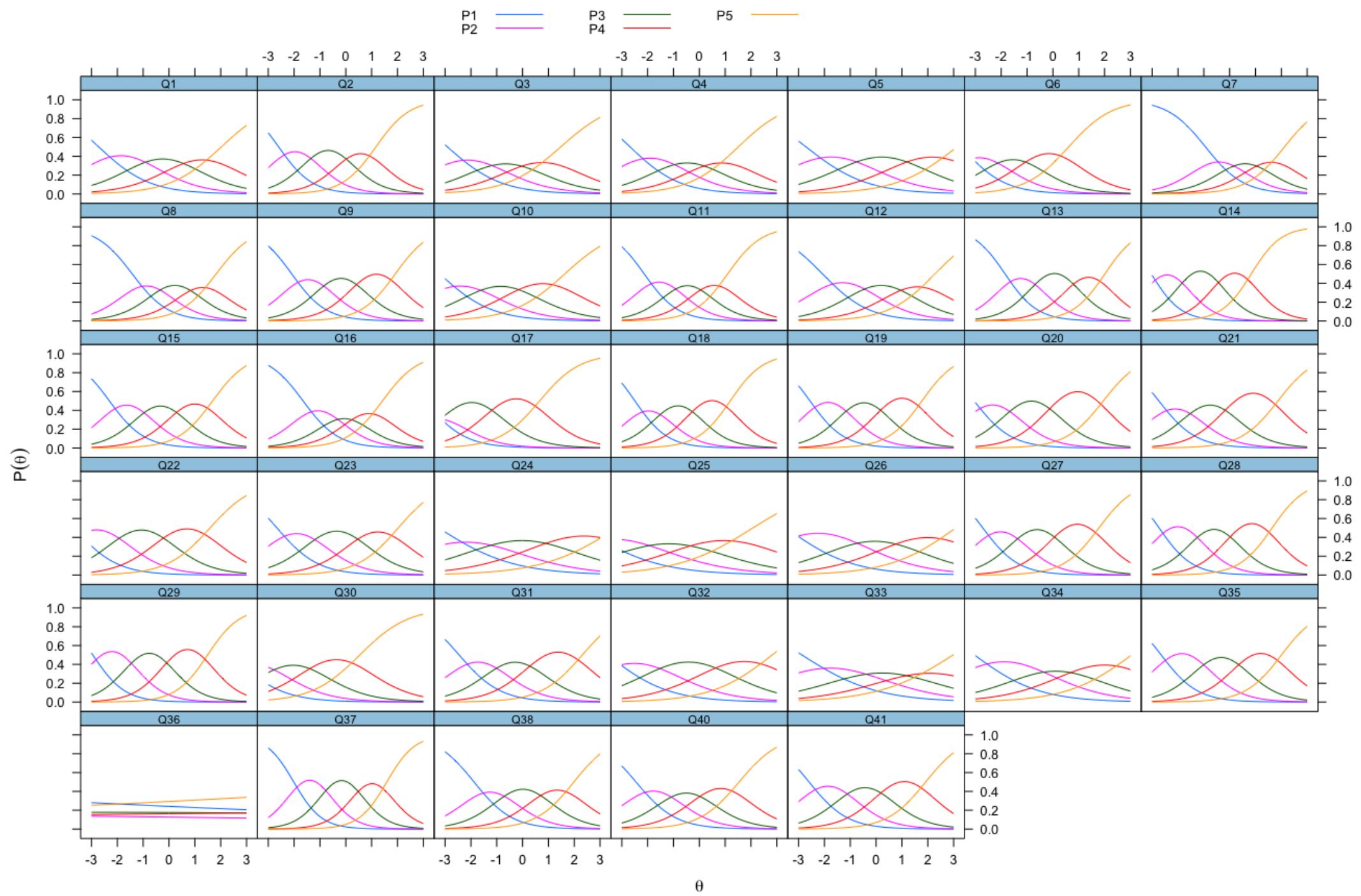
# Item 40: Mahi aroha

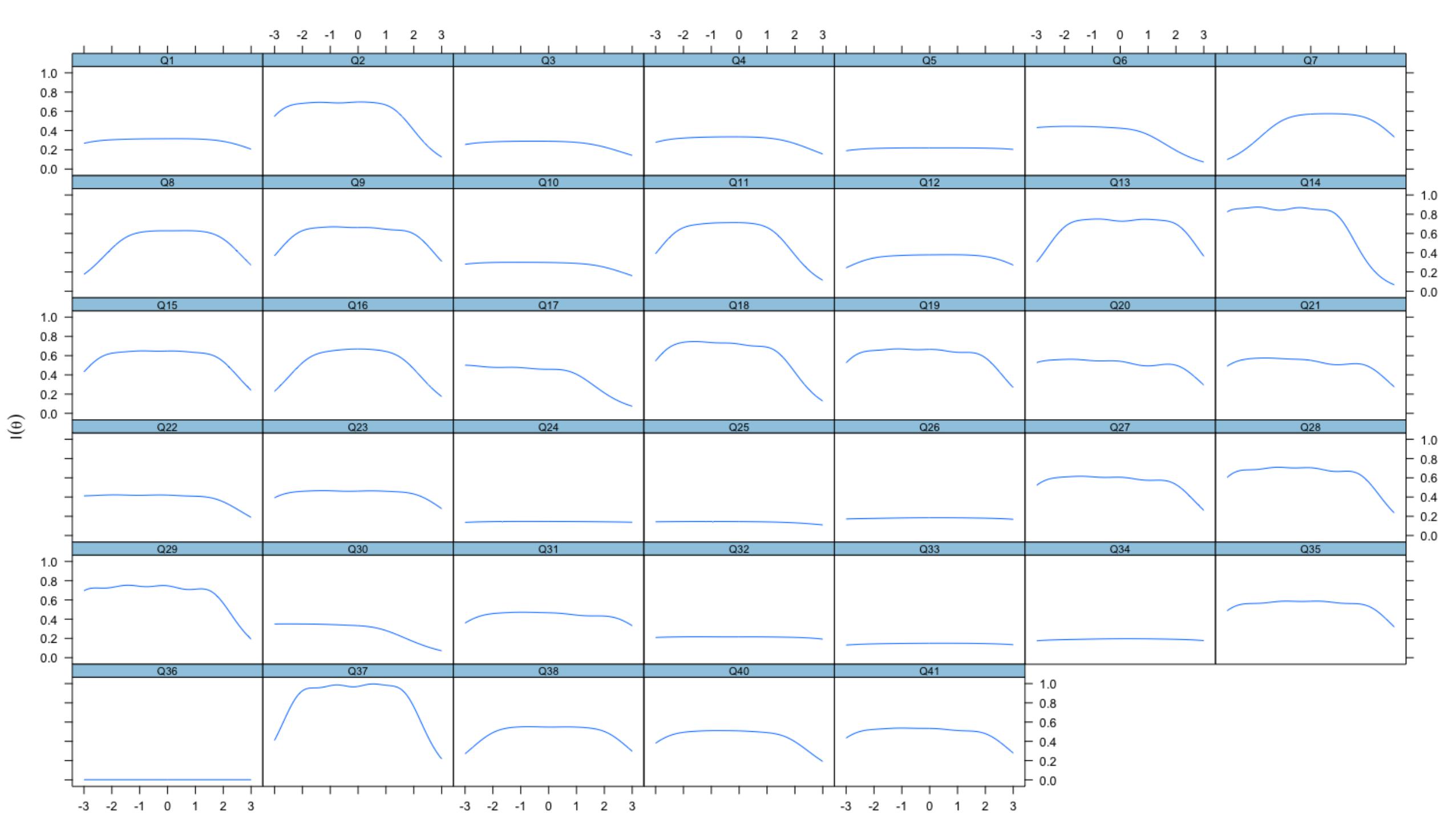
Which stage best reflects your current lifestyle choices related to mahi aroha?

\*Here mahi aroha refers to the initiatives, hobbies, projects, or work that you are involved in that is motivated by passion, love, and service rather than financial incentives.

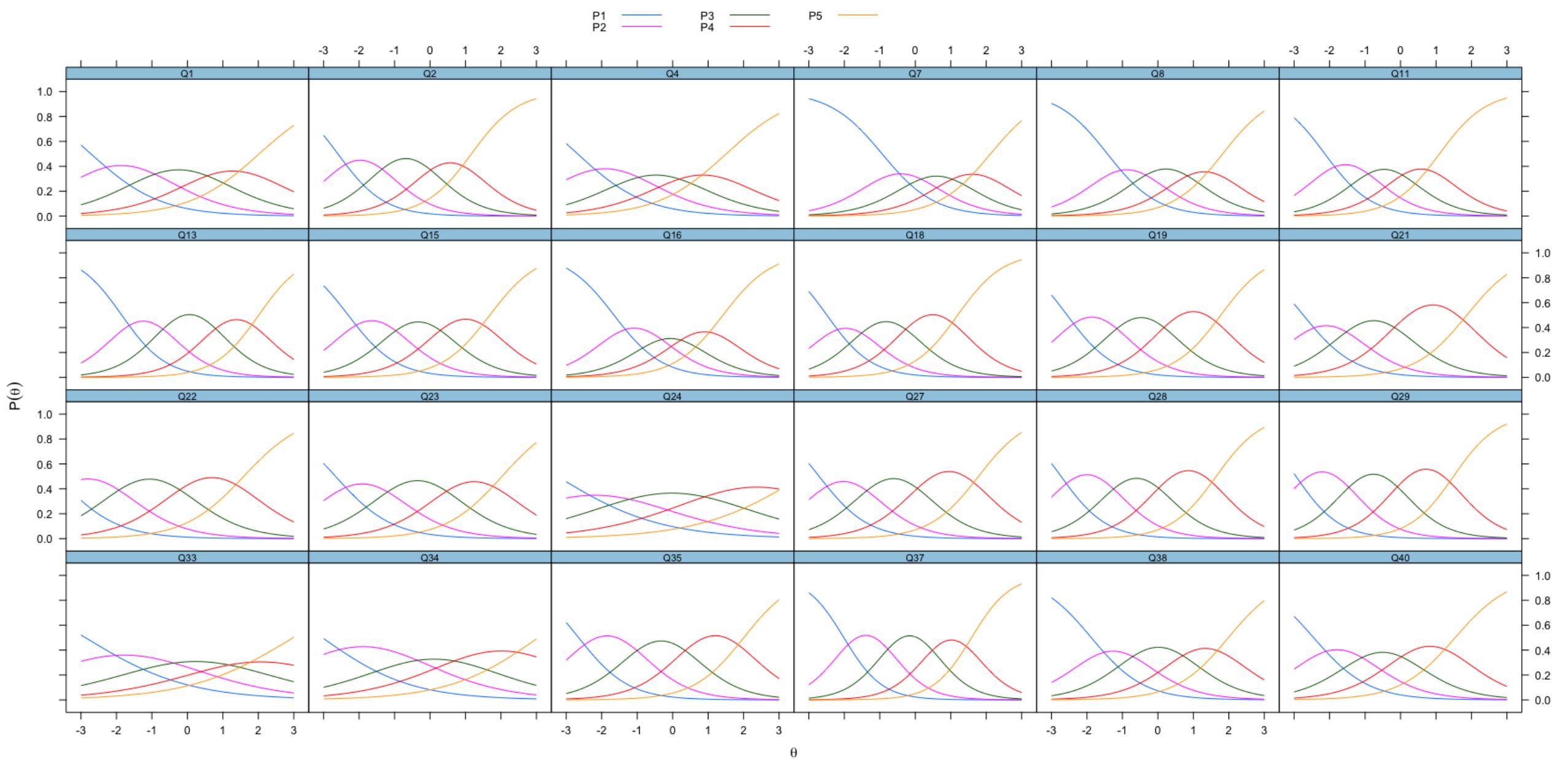


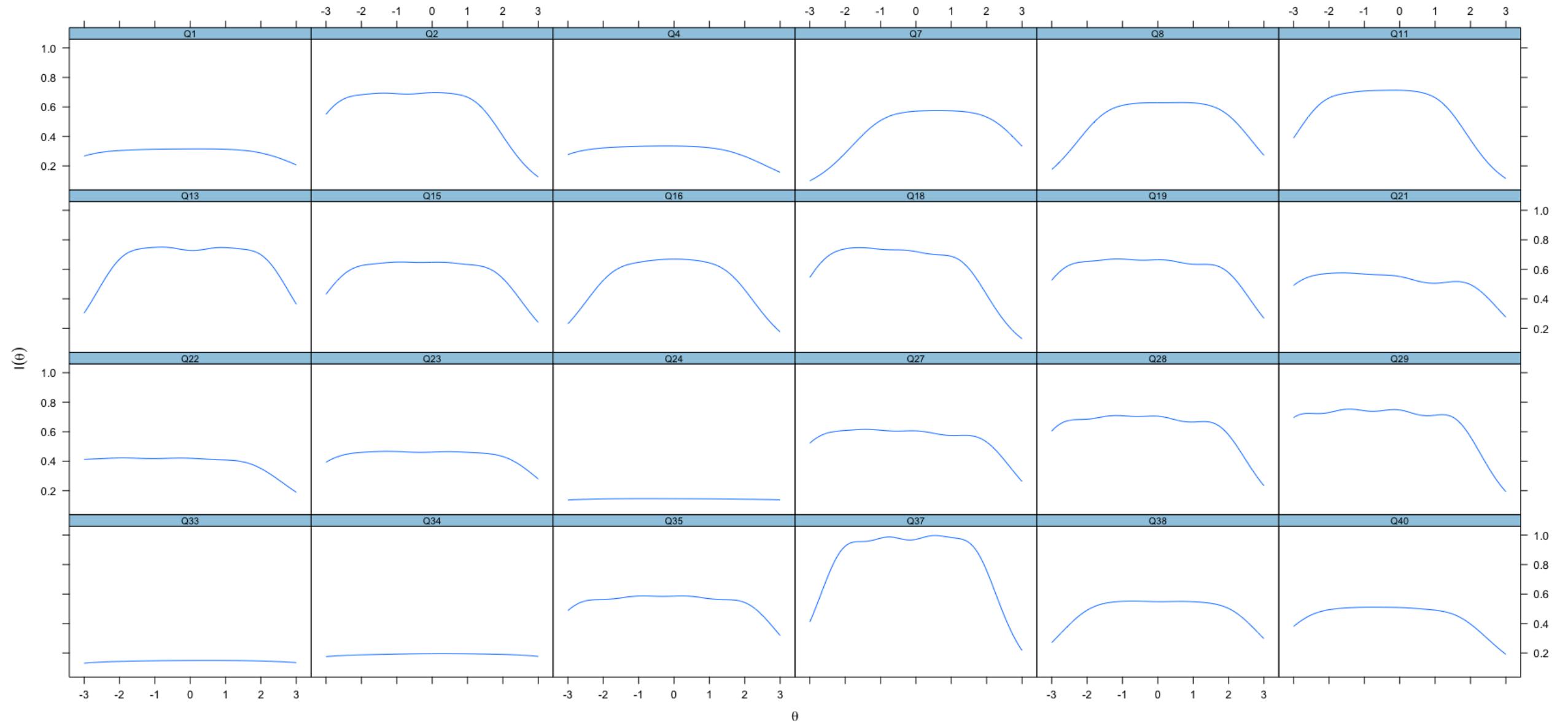
# **UIRT CRCs and IICs for WeHI-roa**



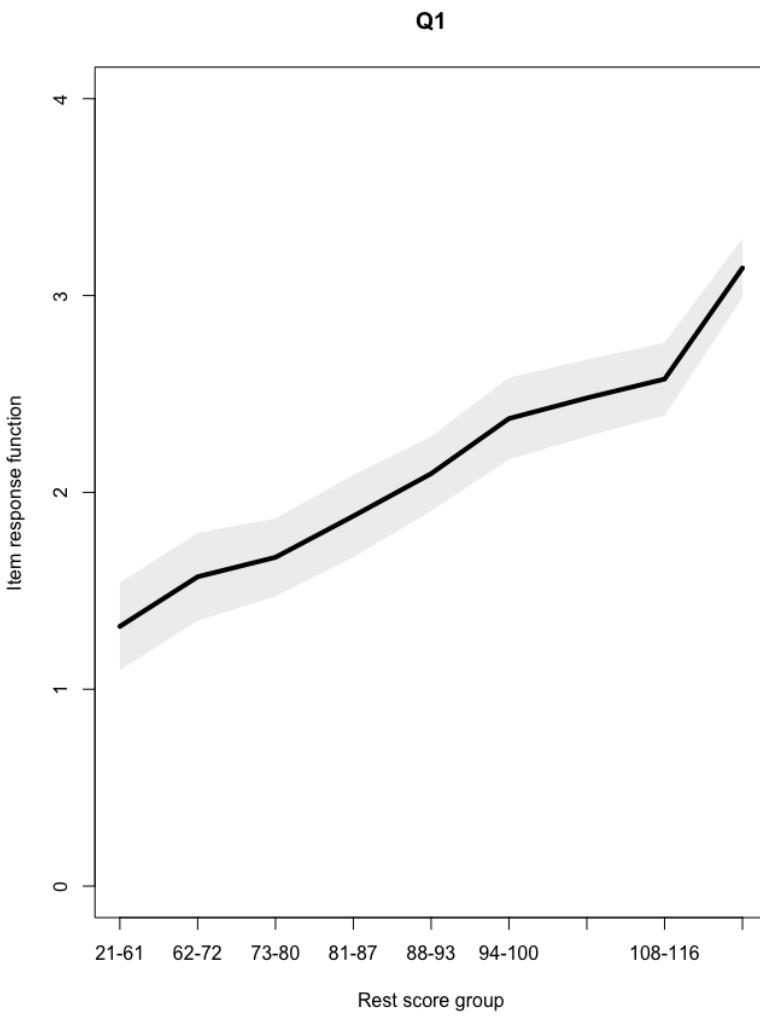
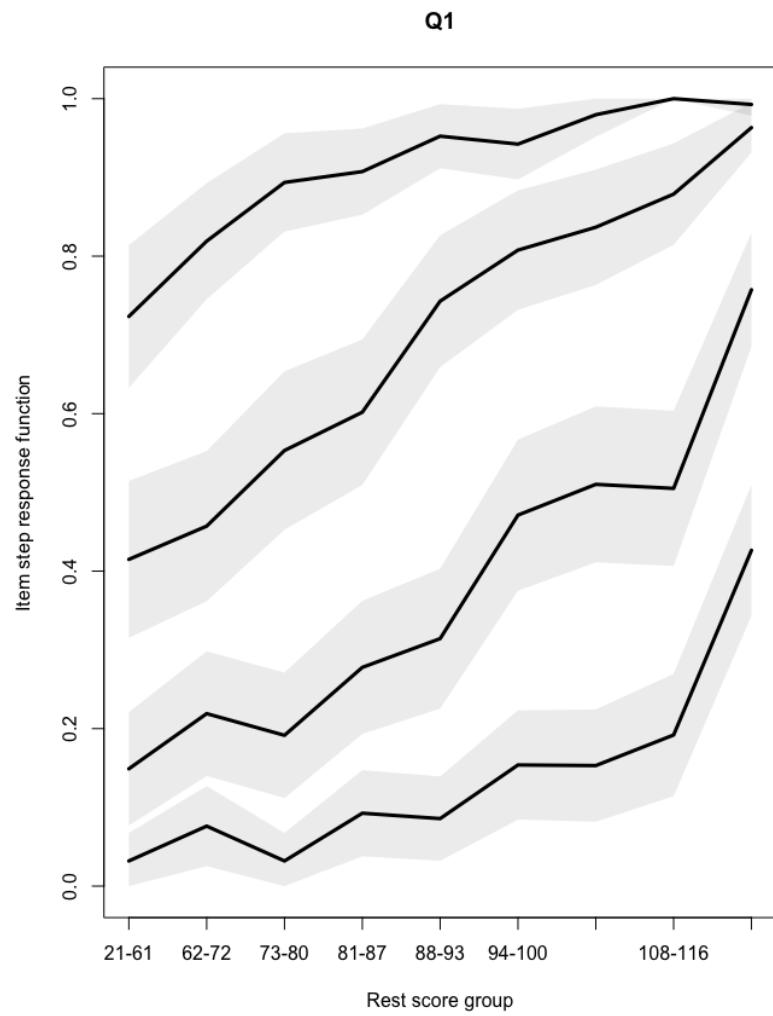


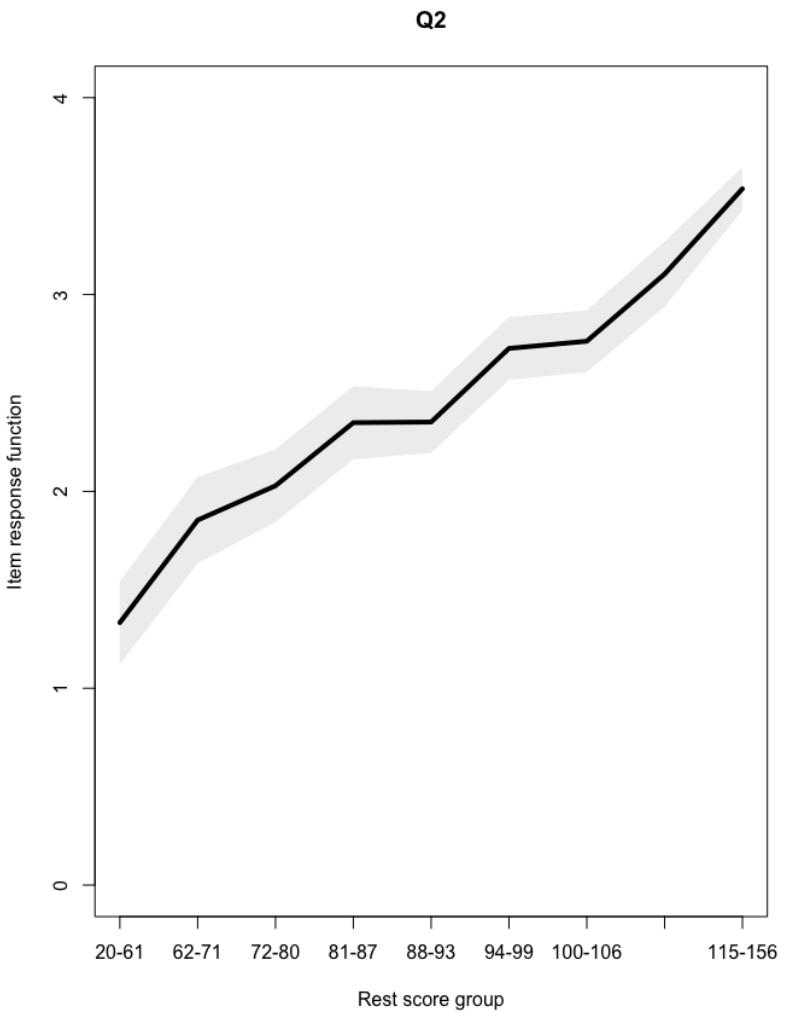
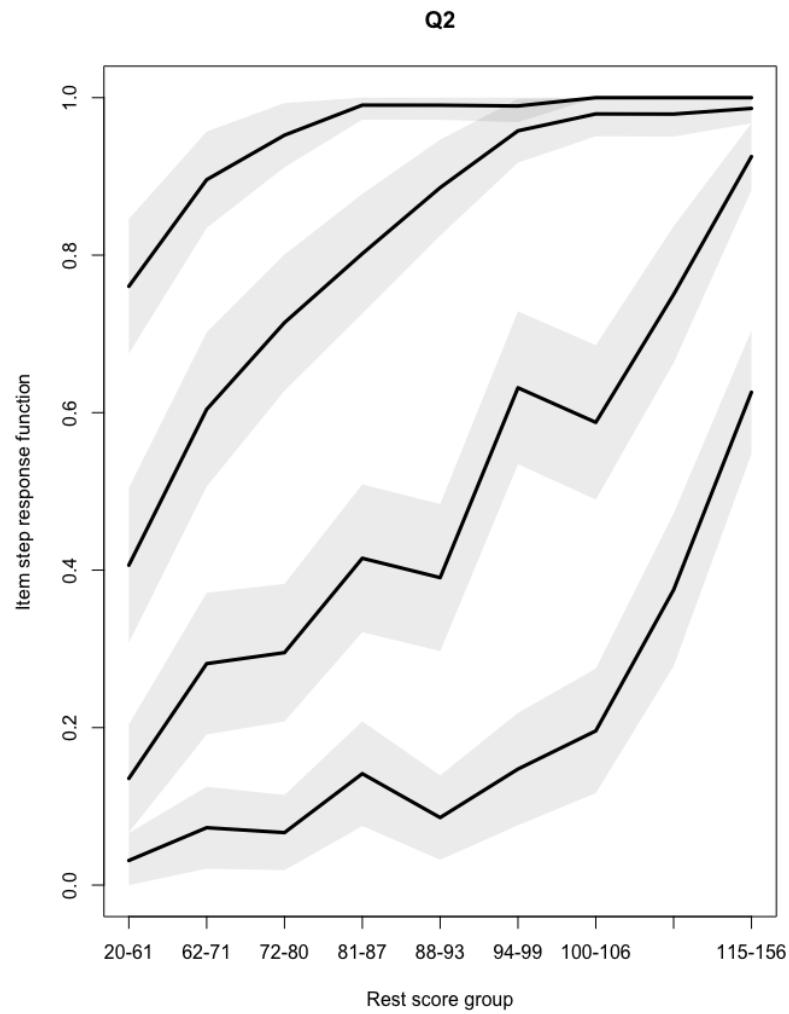
# **UIRT CRCs and IICs for WeHI**

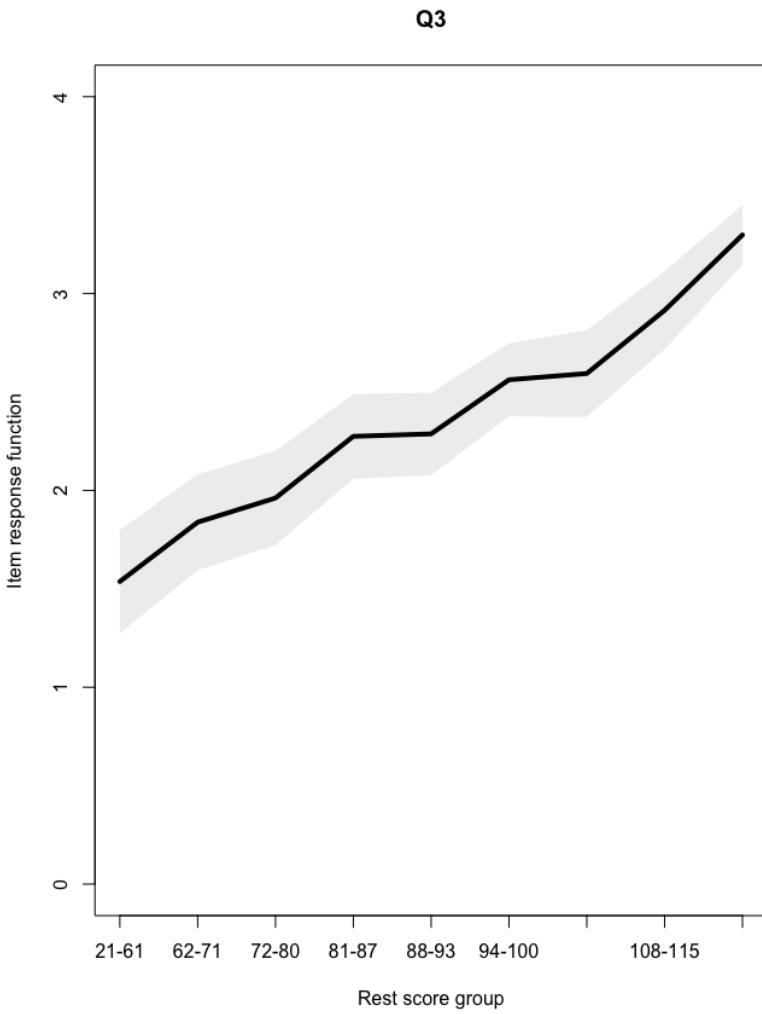
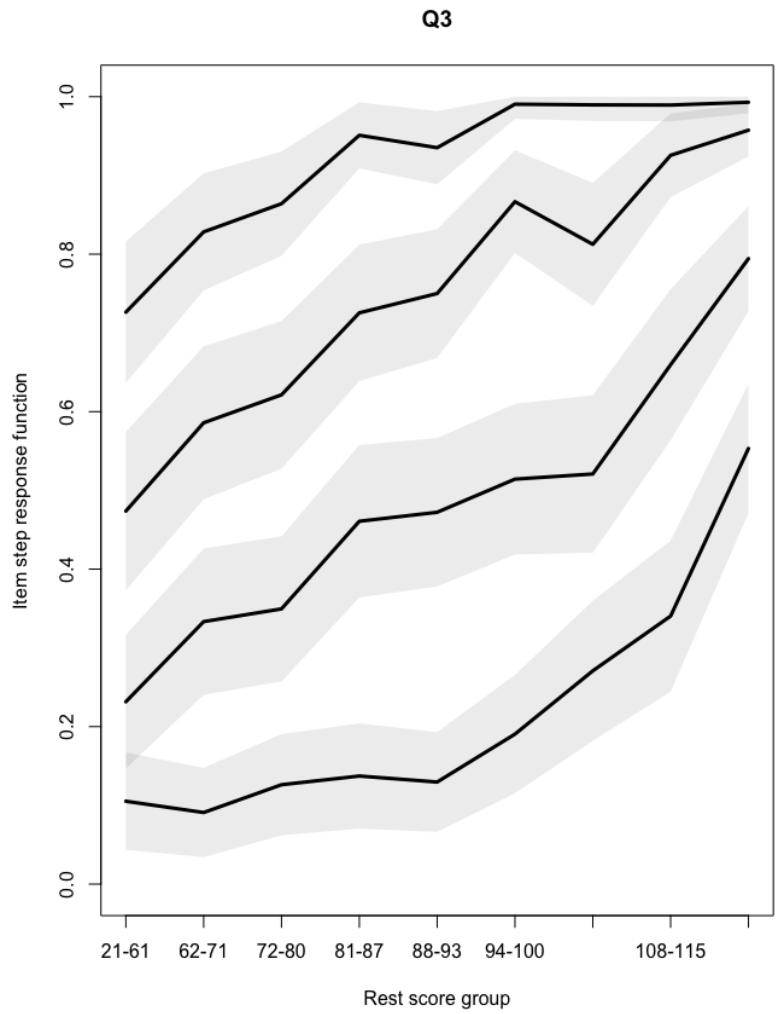


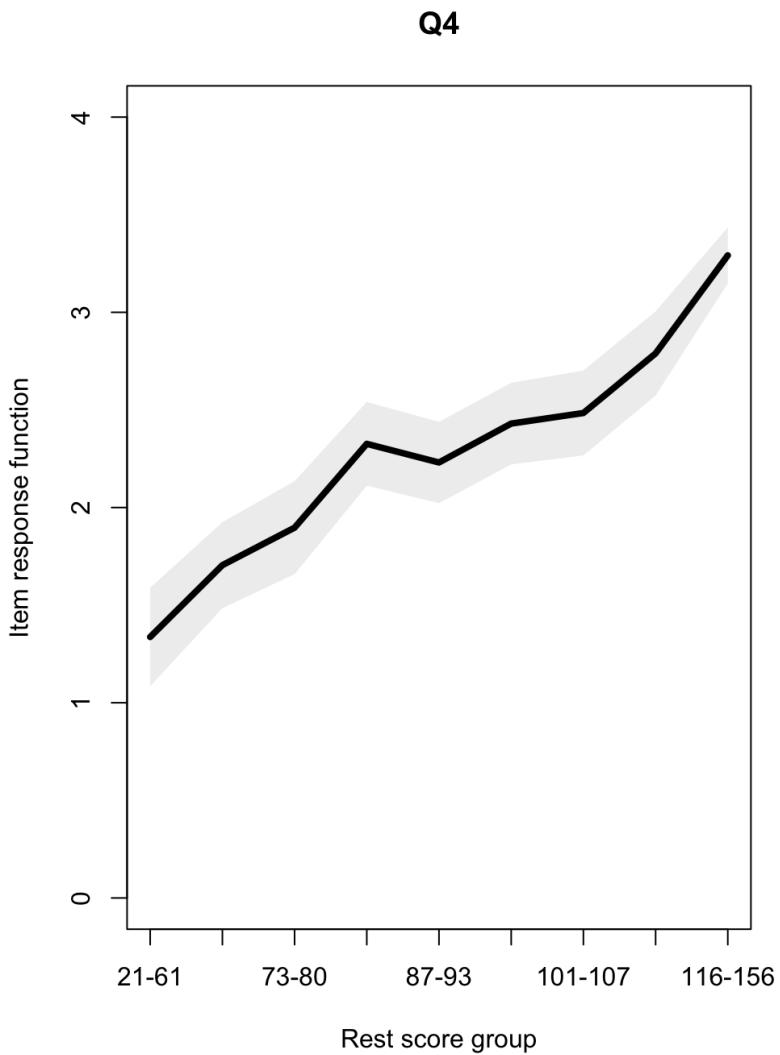
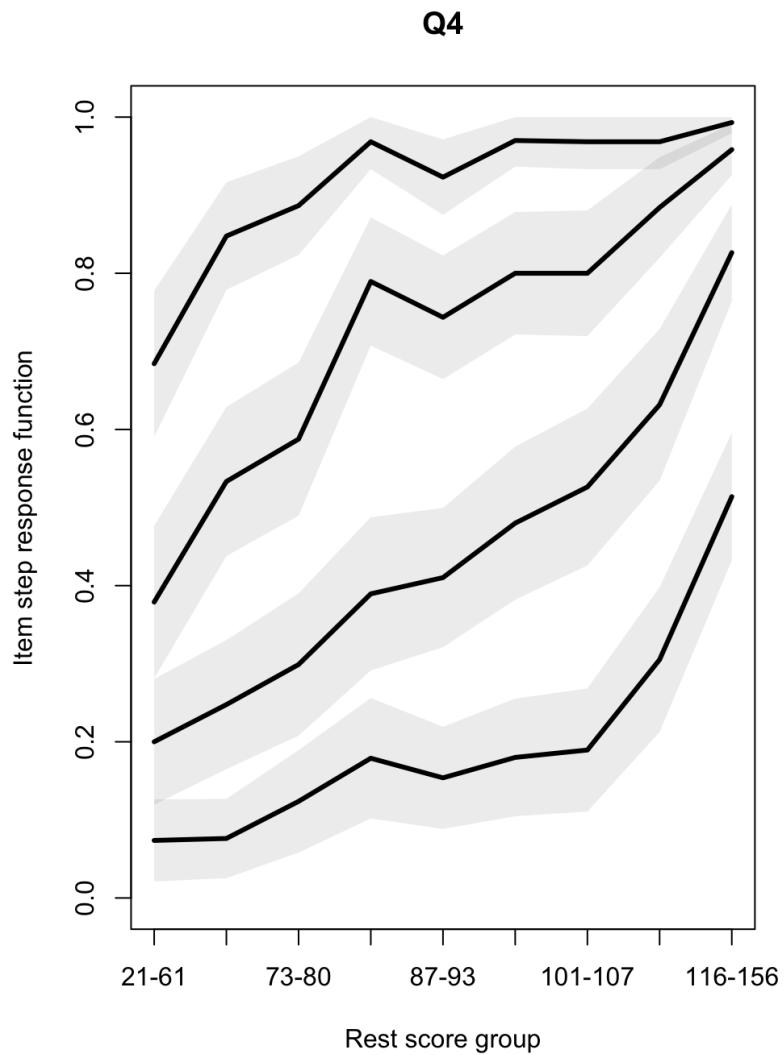


# **MSA Monotonicity plots**

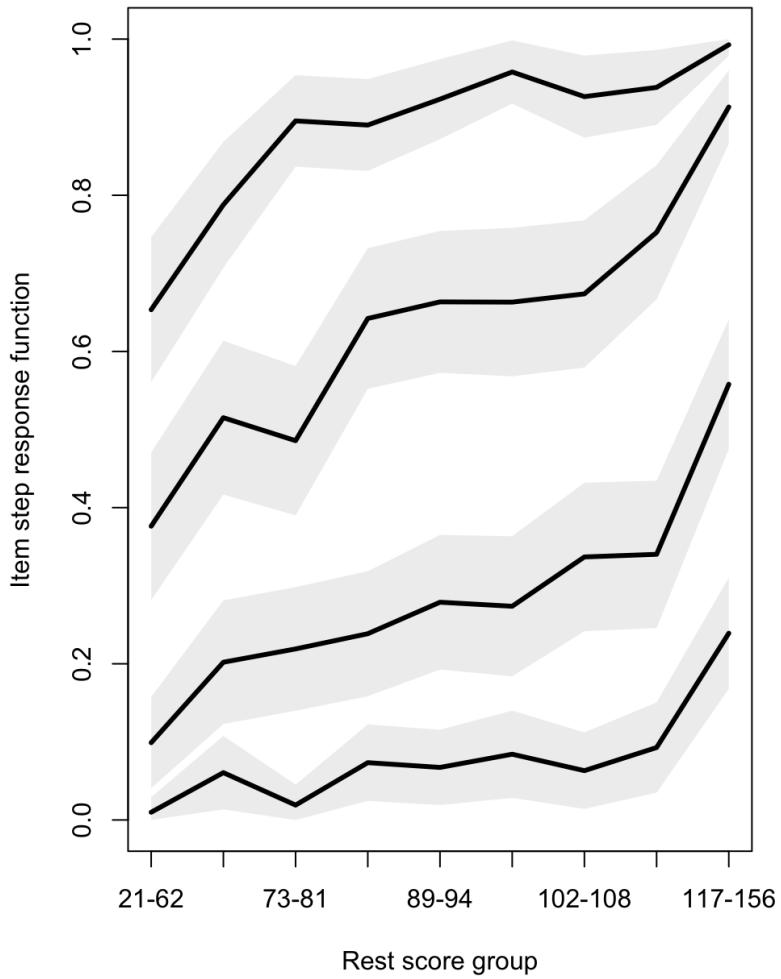




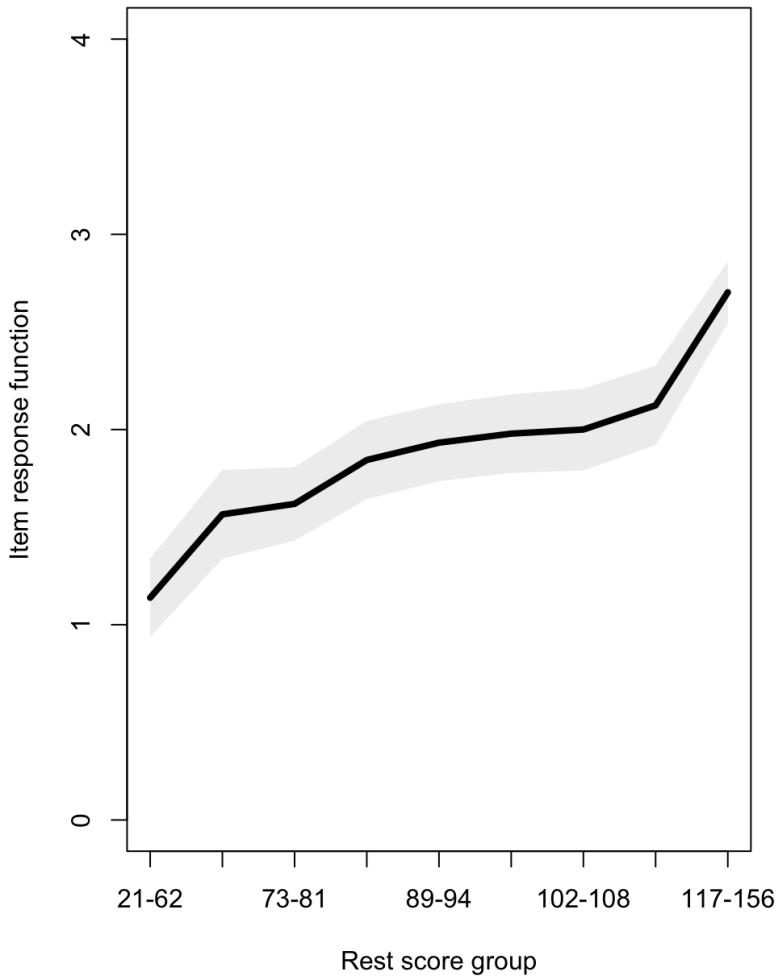


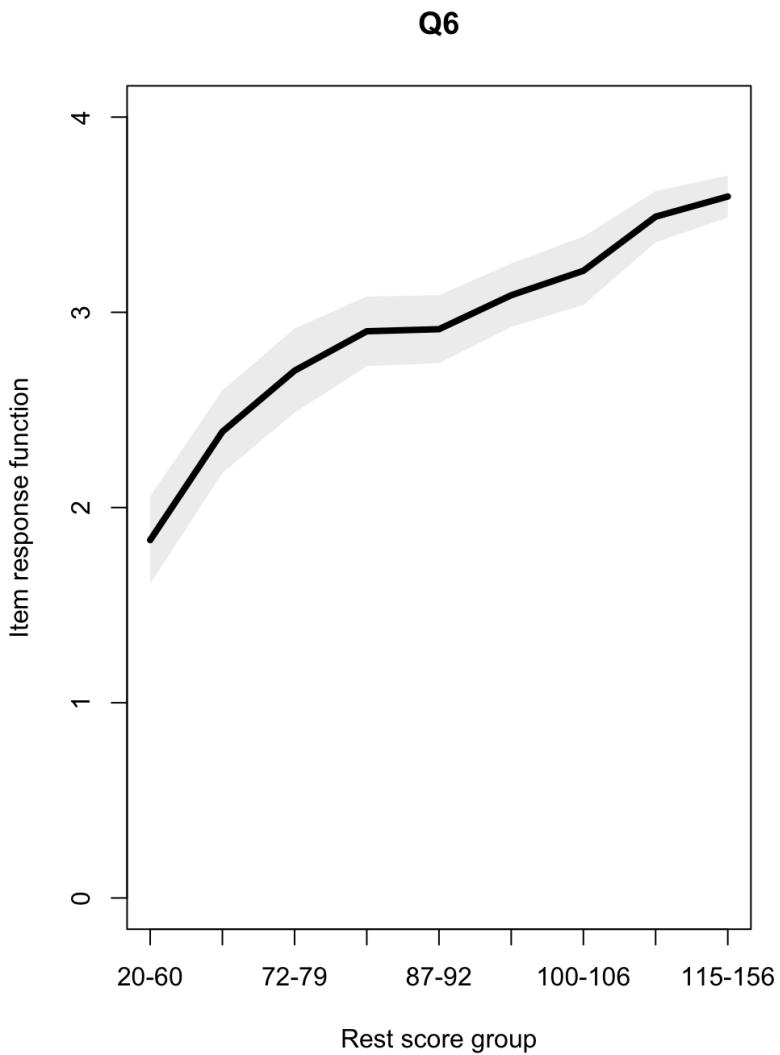
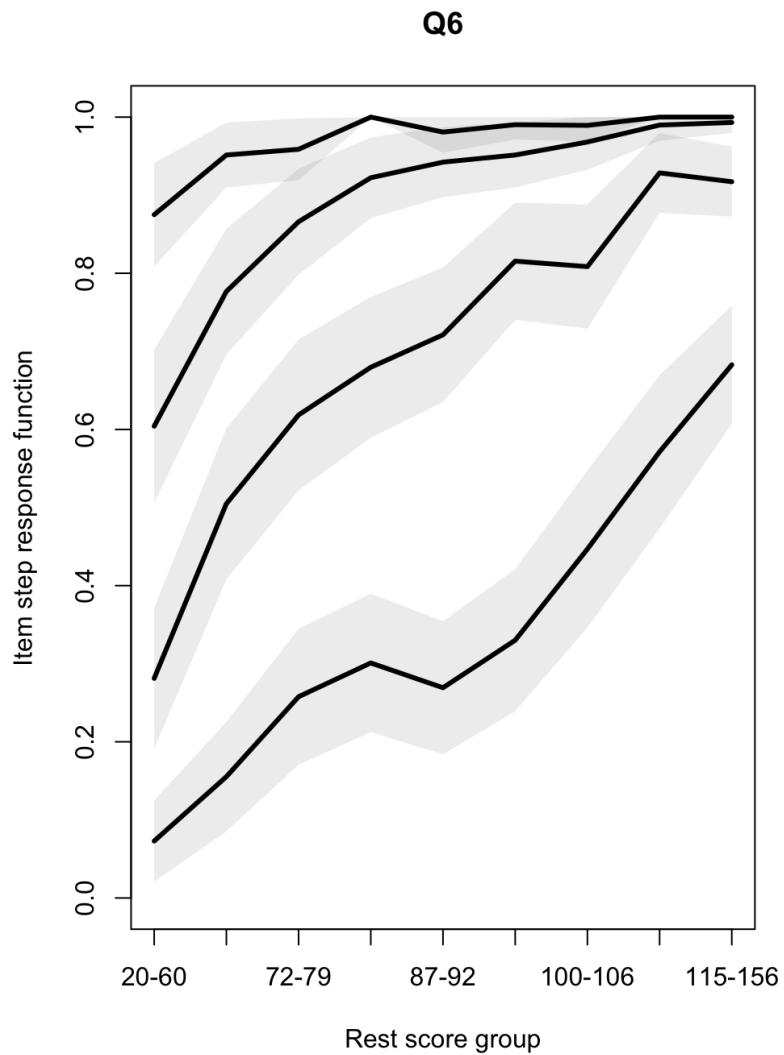


**Q5**

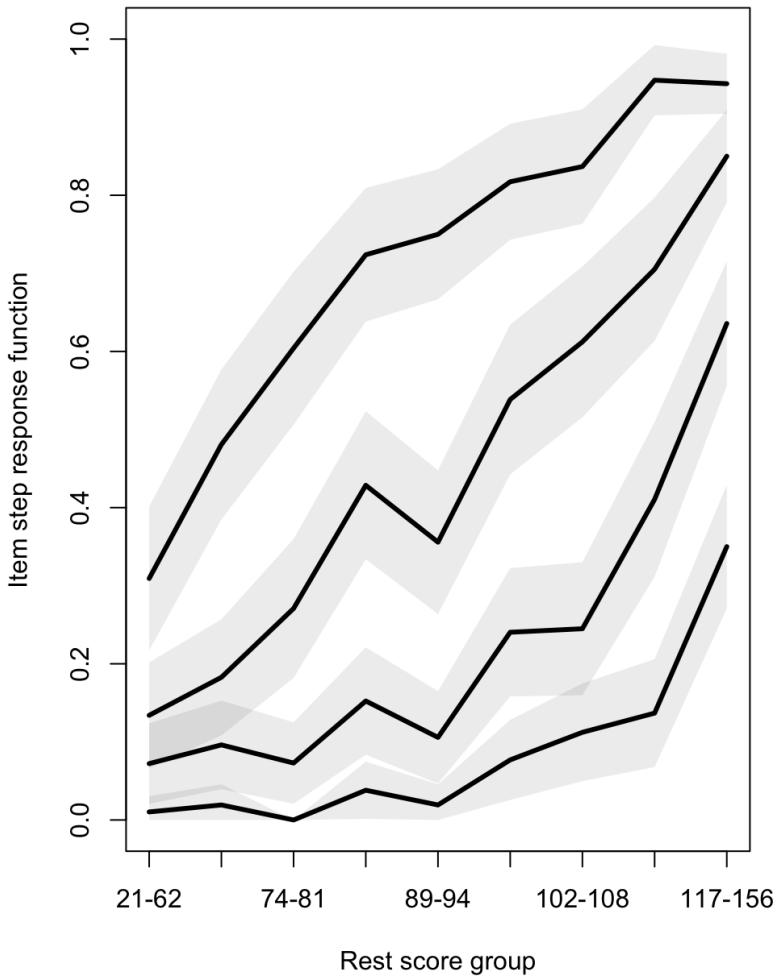


**Q5**

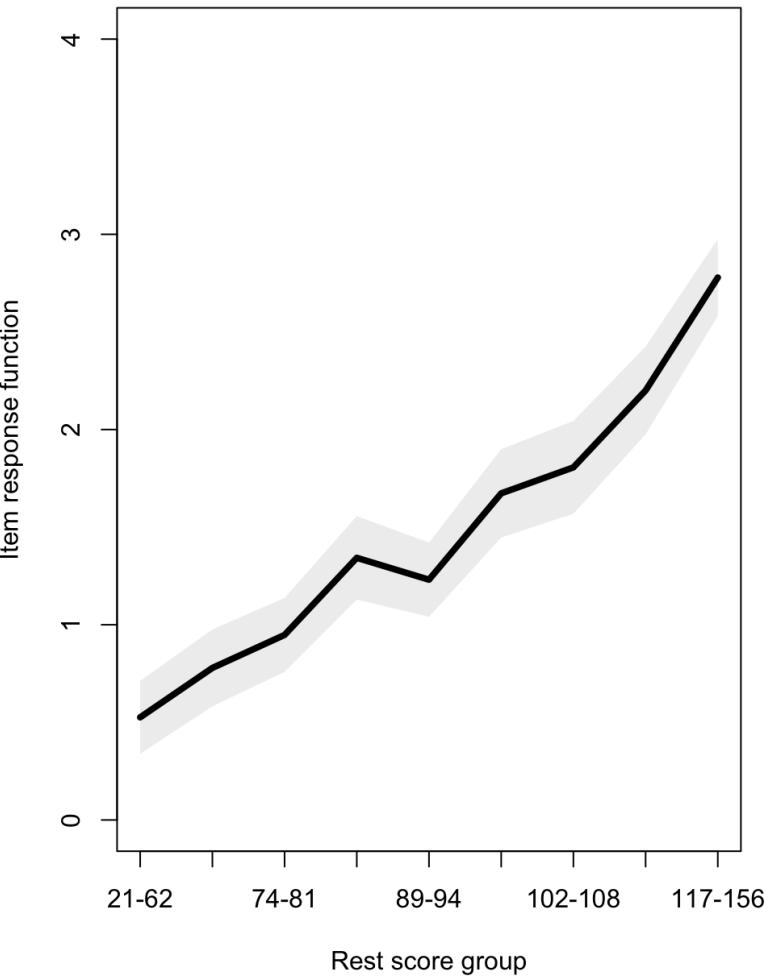




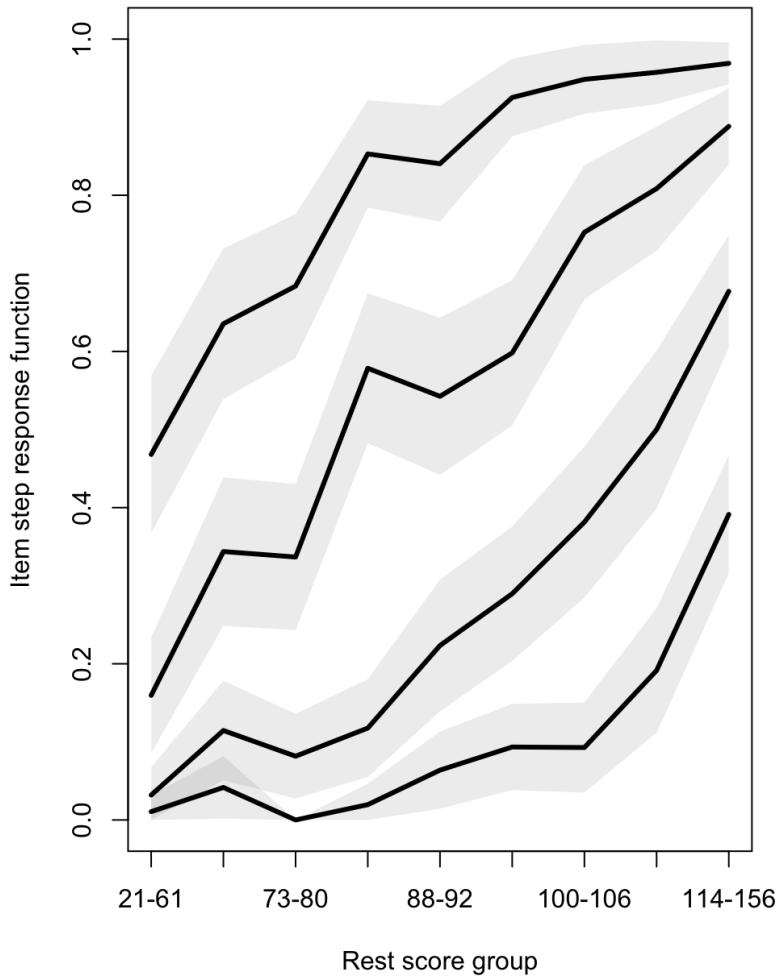
**Q7**



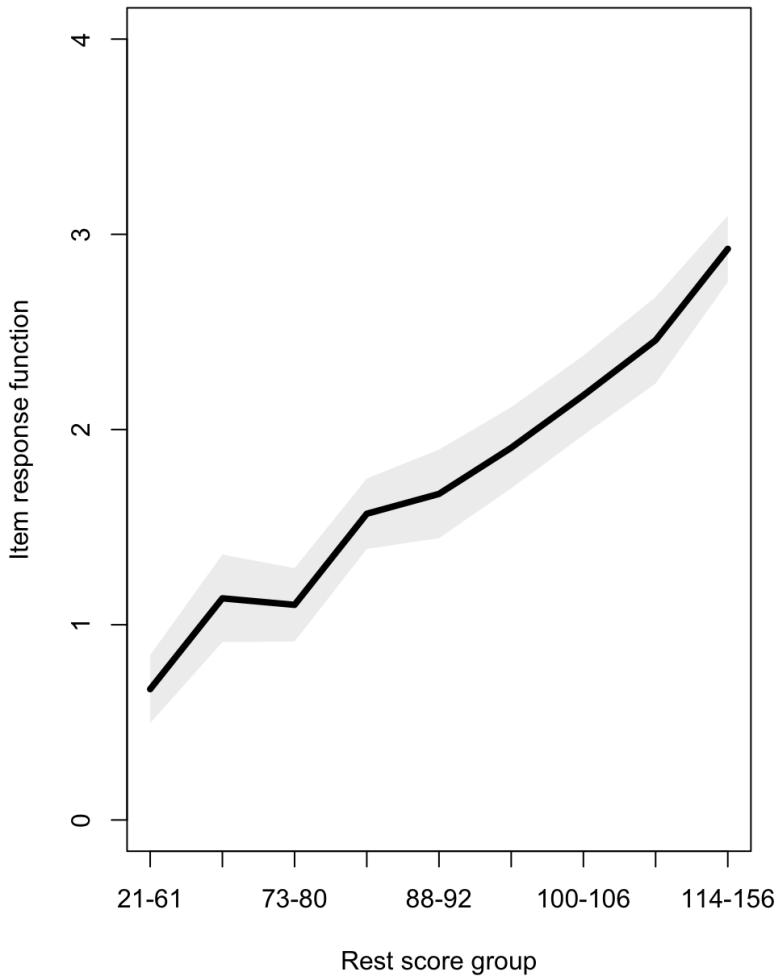
**Q7**



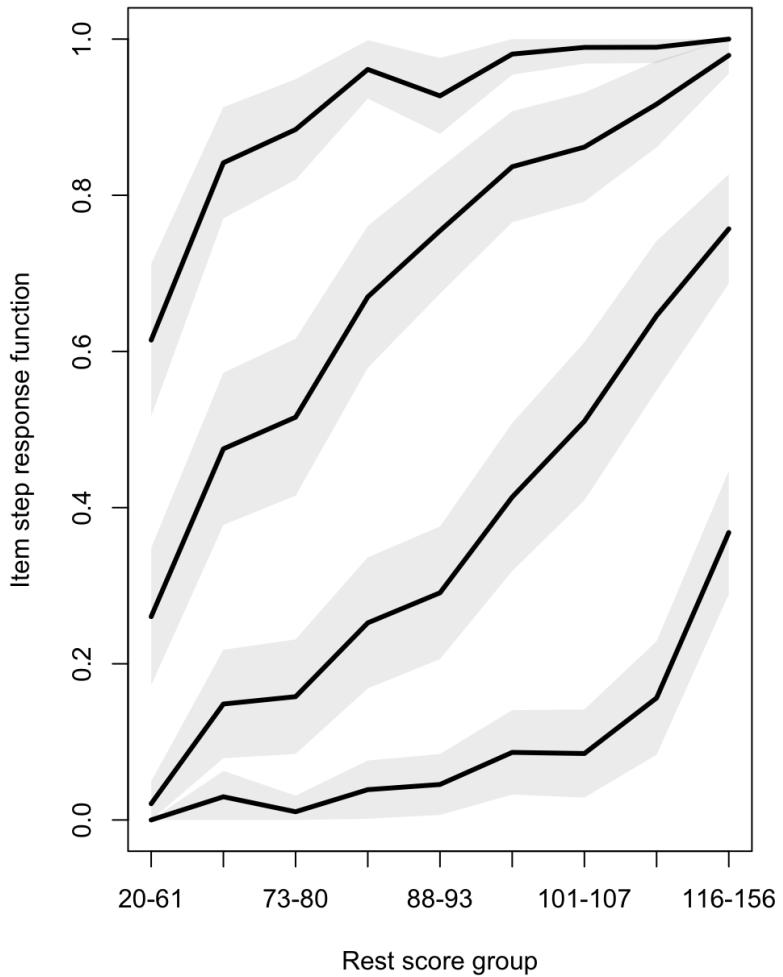
**Q8**



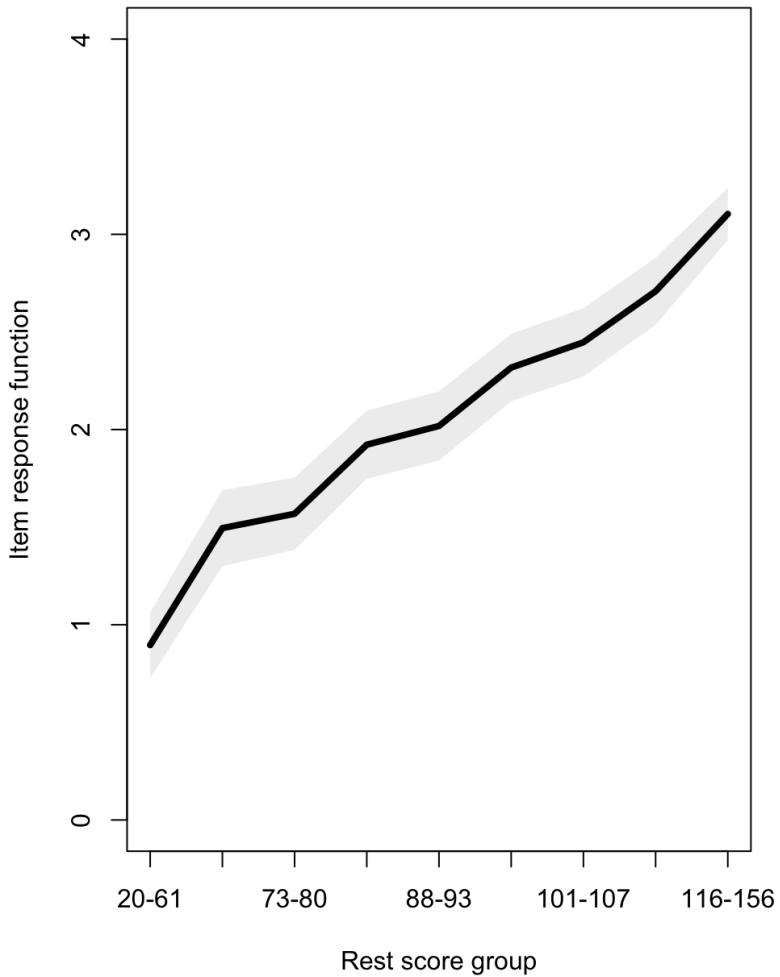
**Q8**

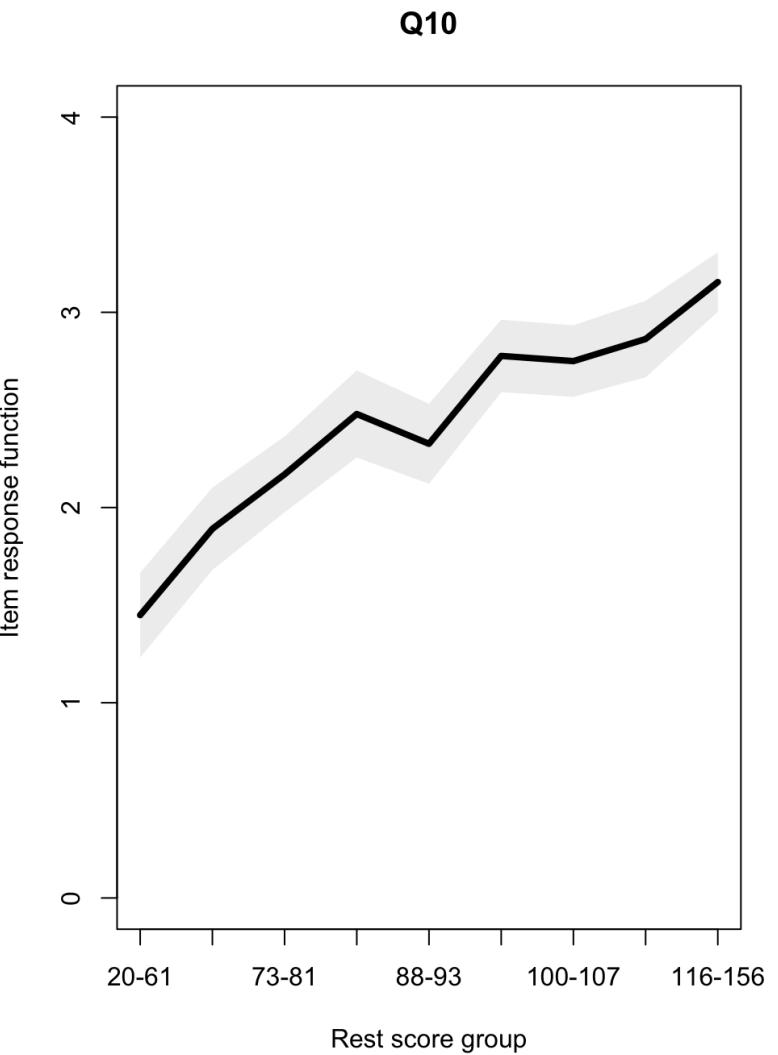
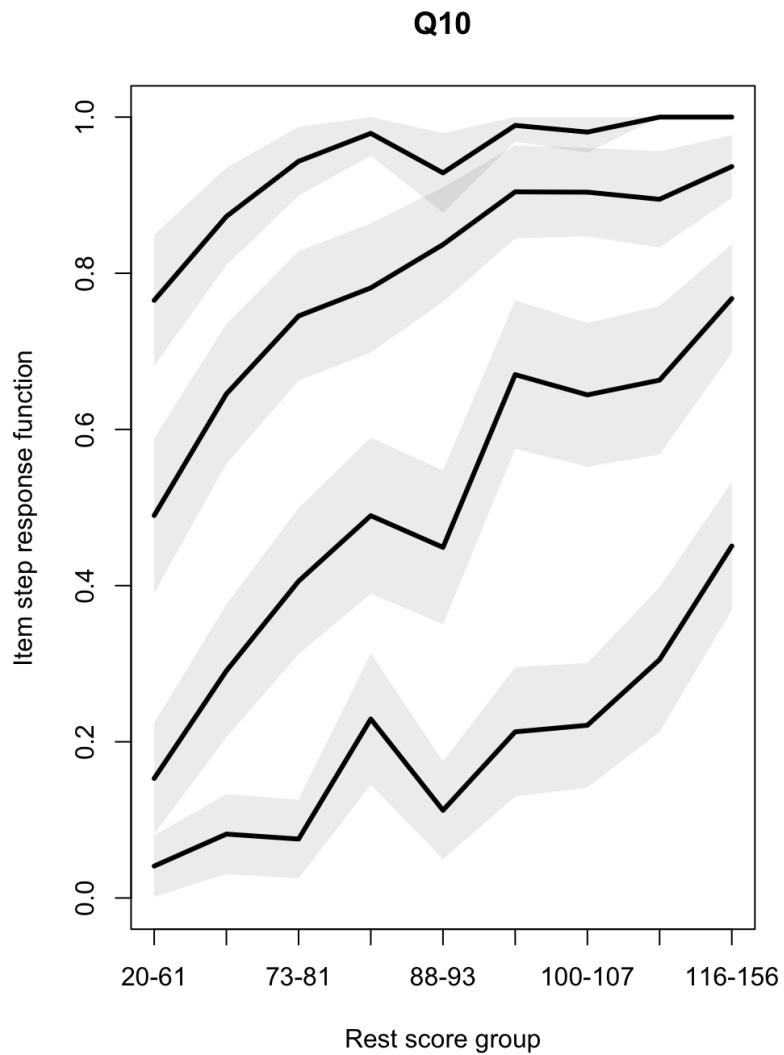


**Q9**

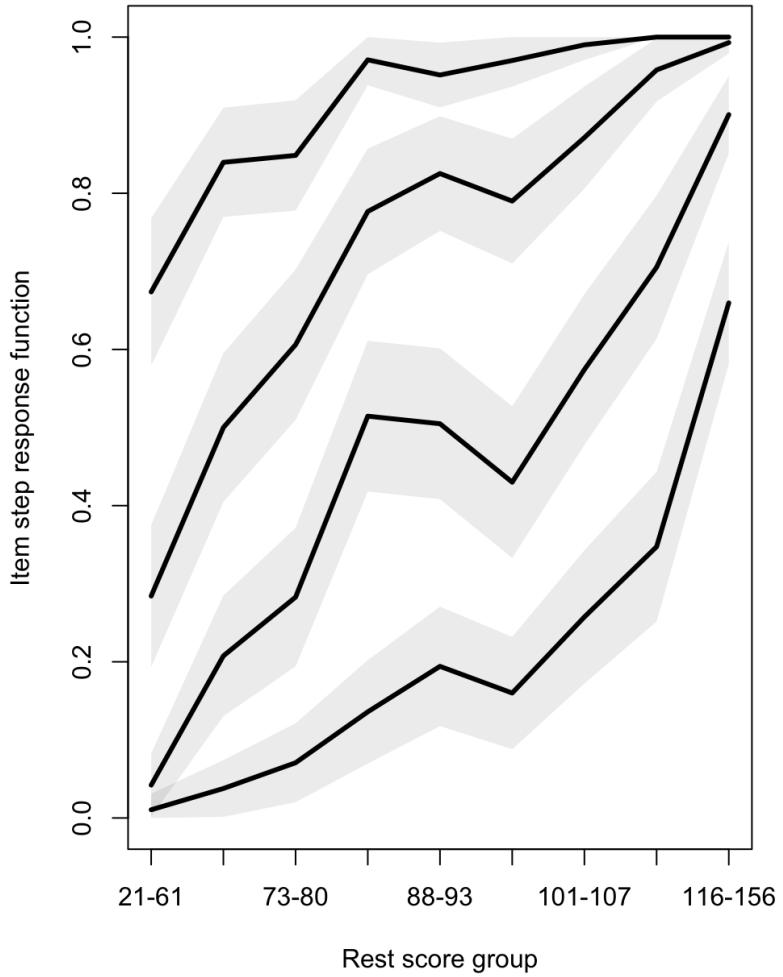


**Q9**

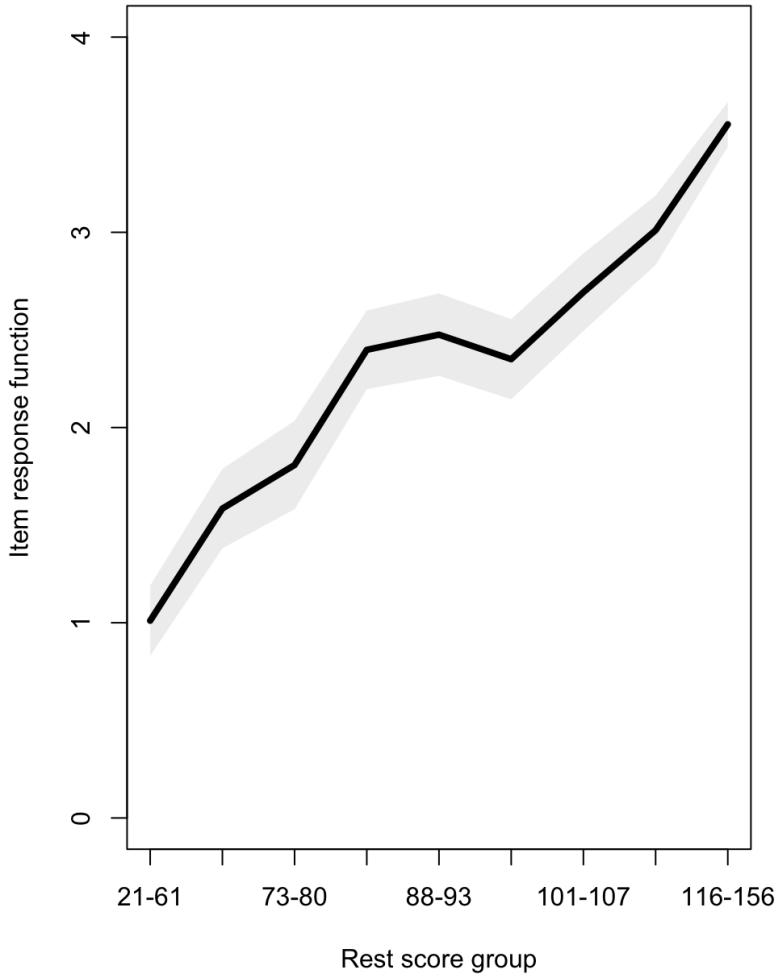


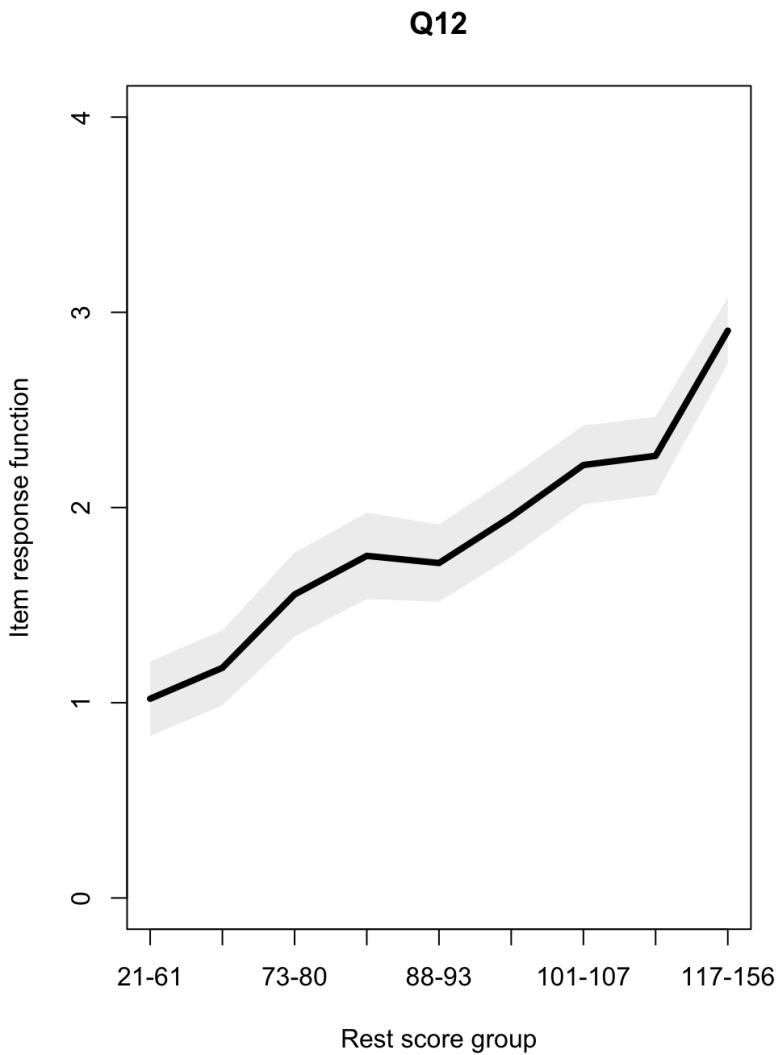
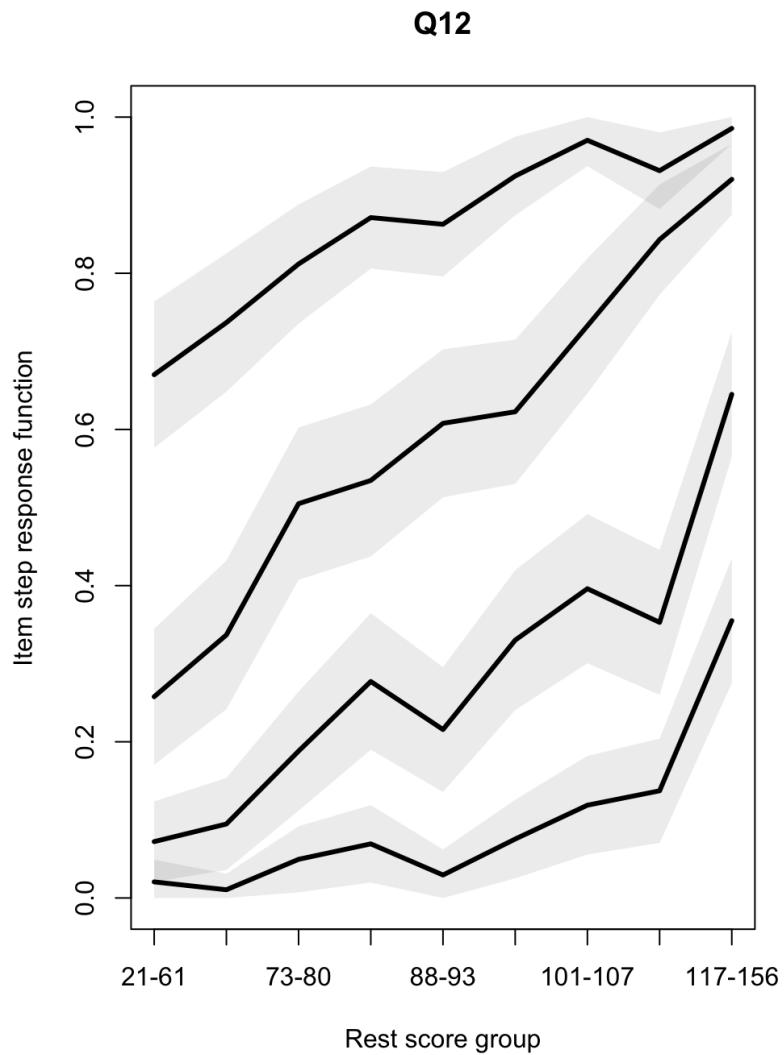


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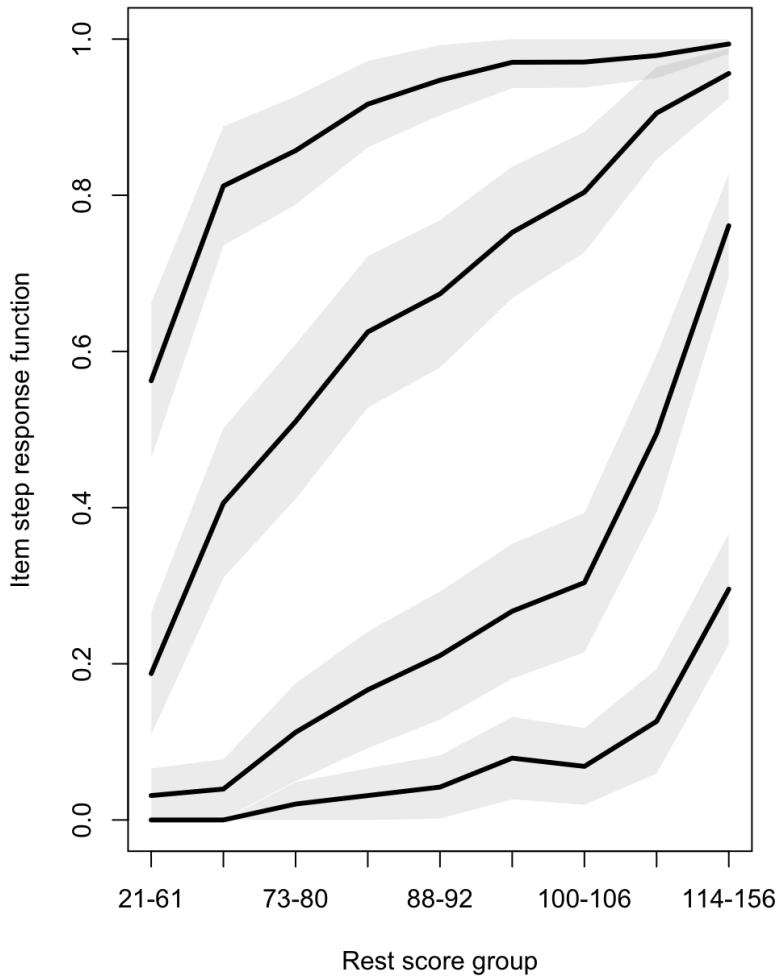


**Q11**

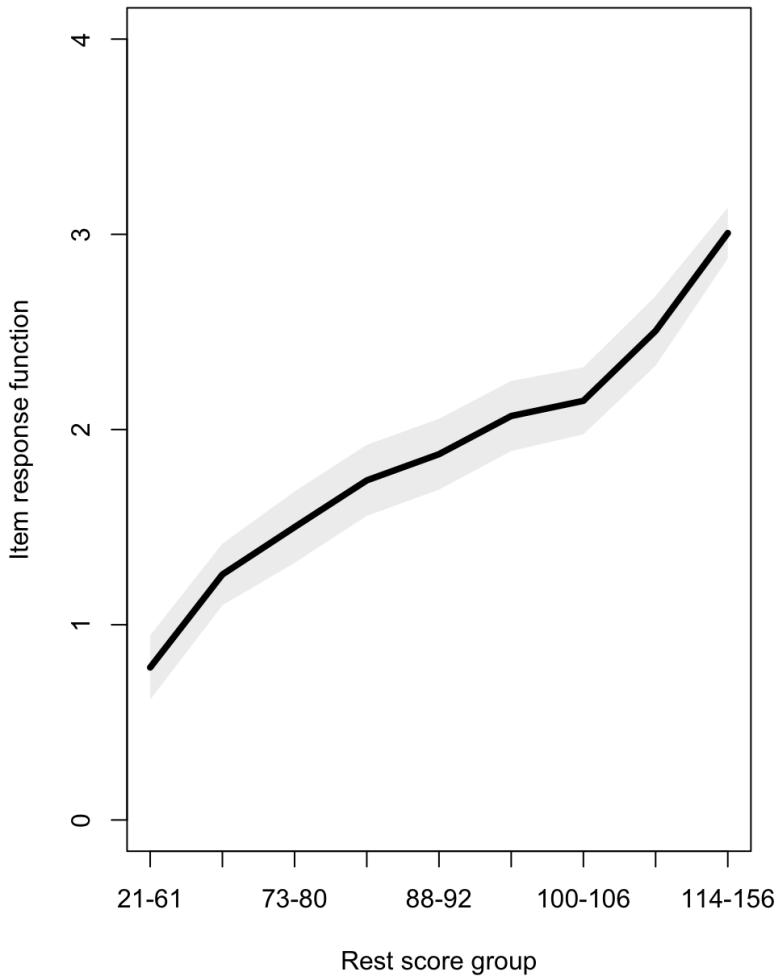




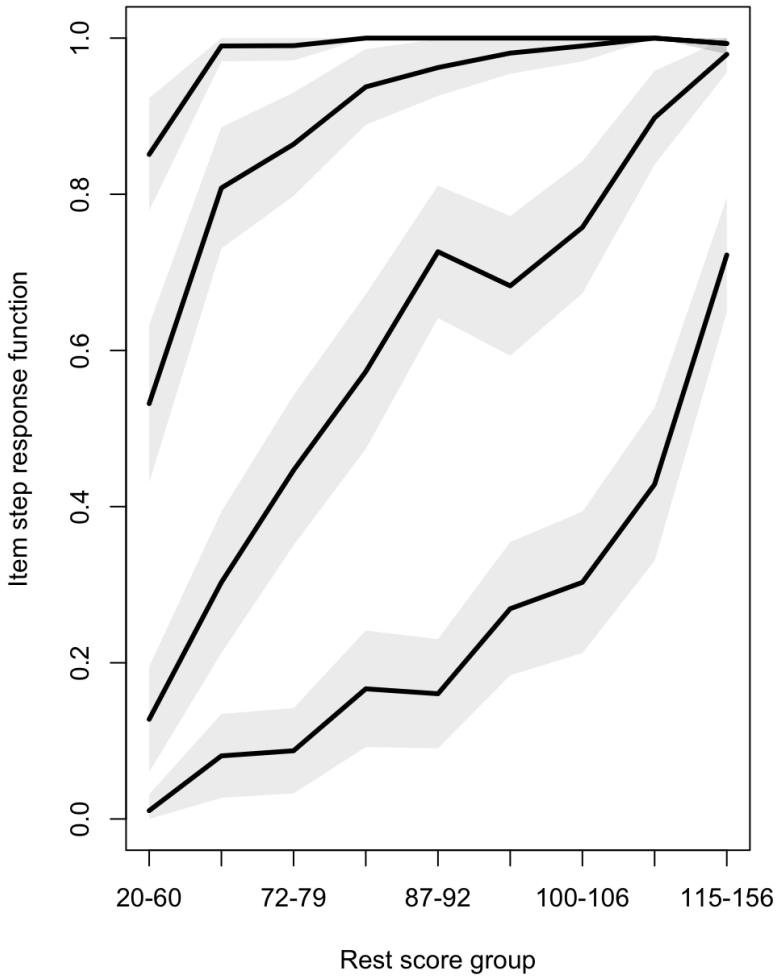
**Q13**



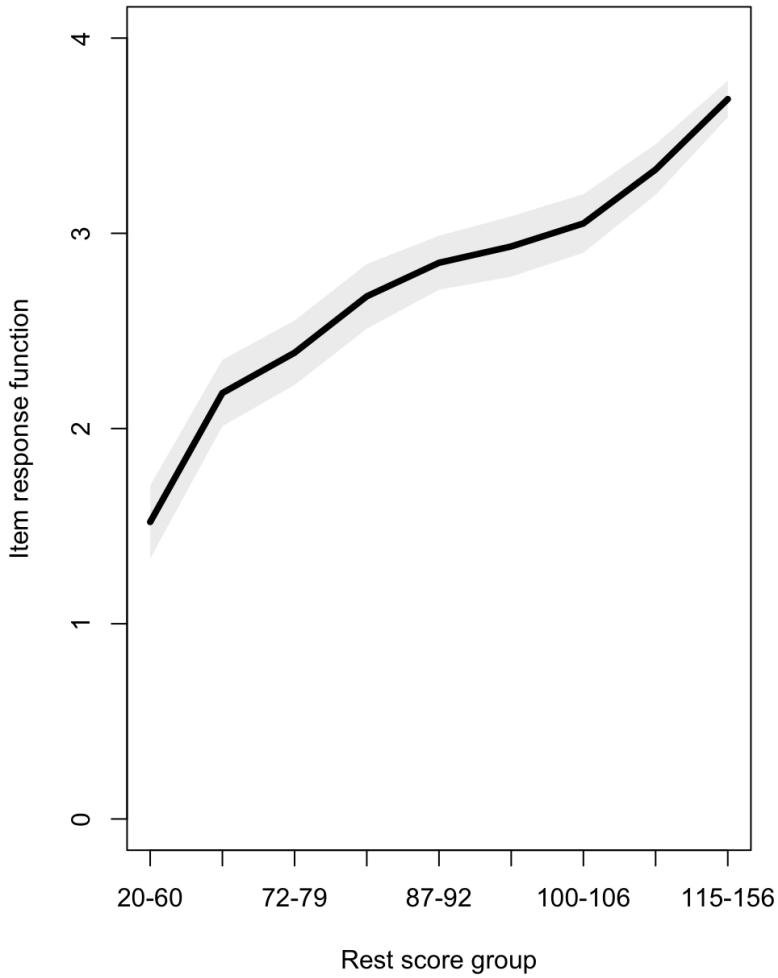
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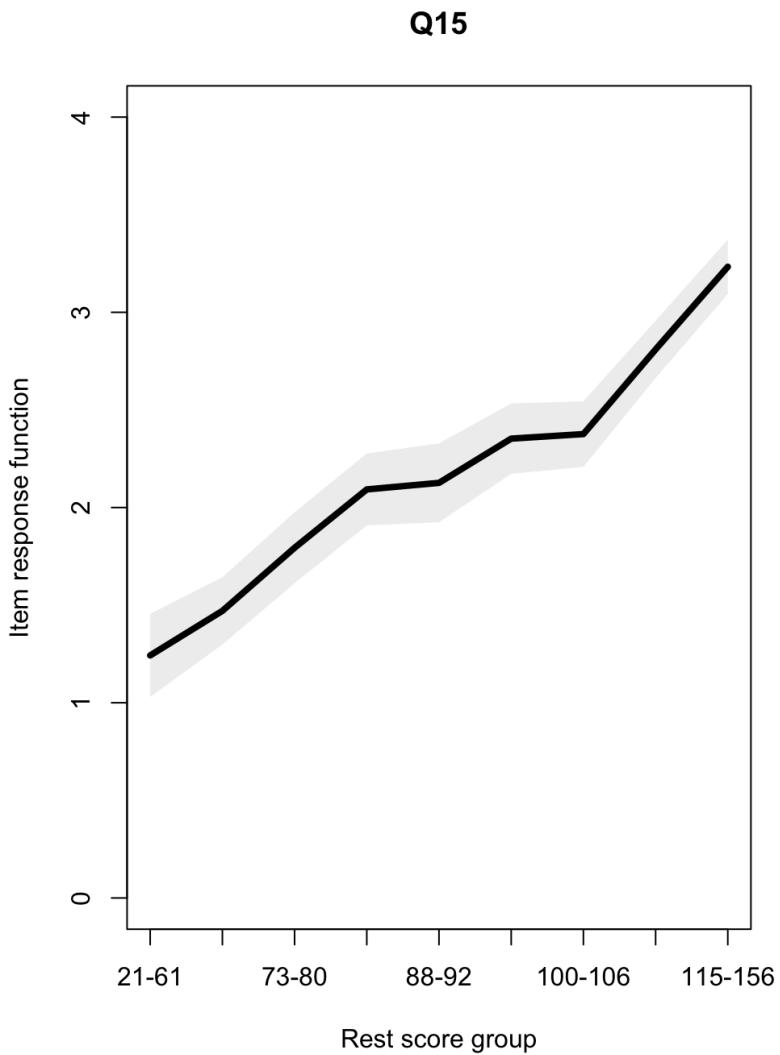
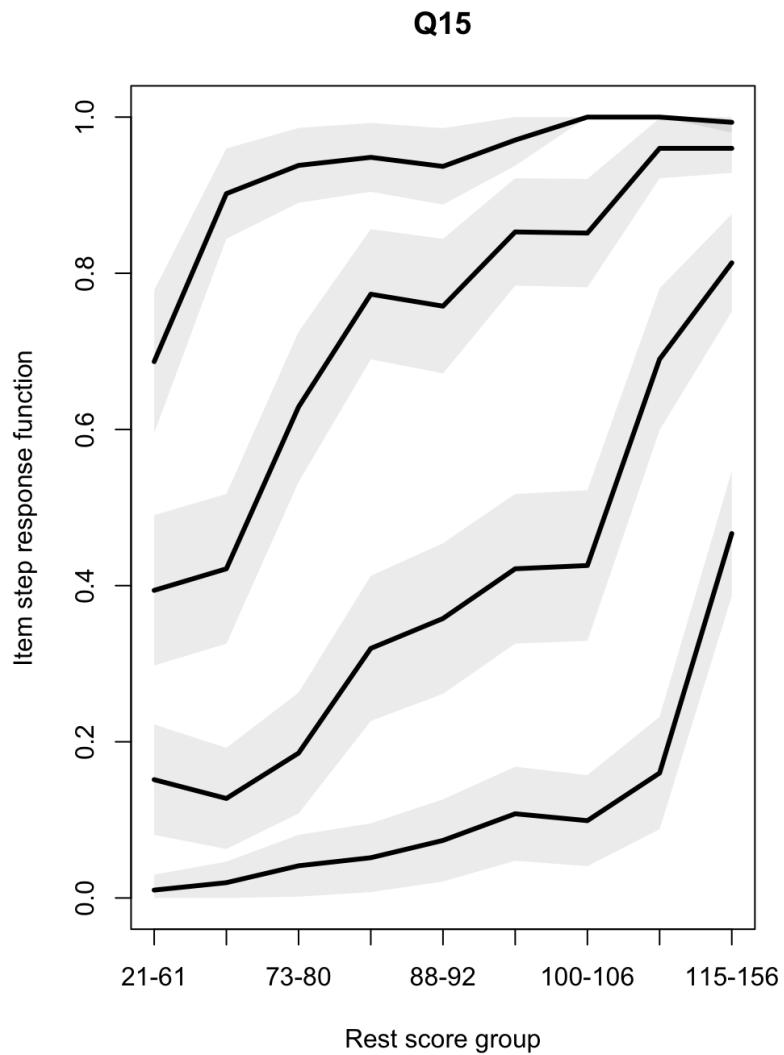


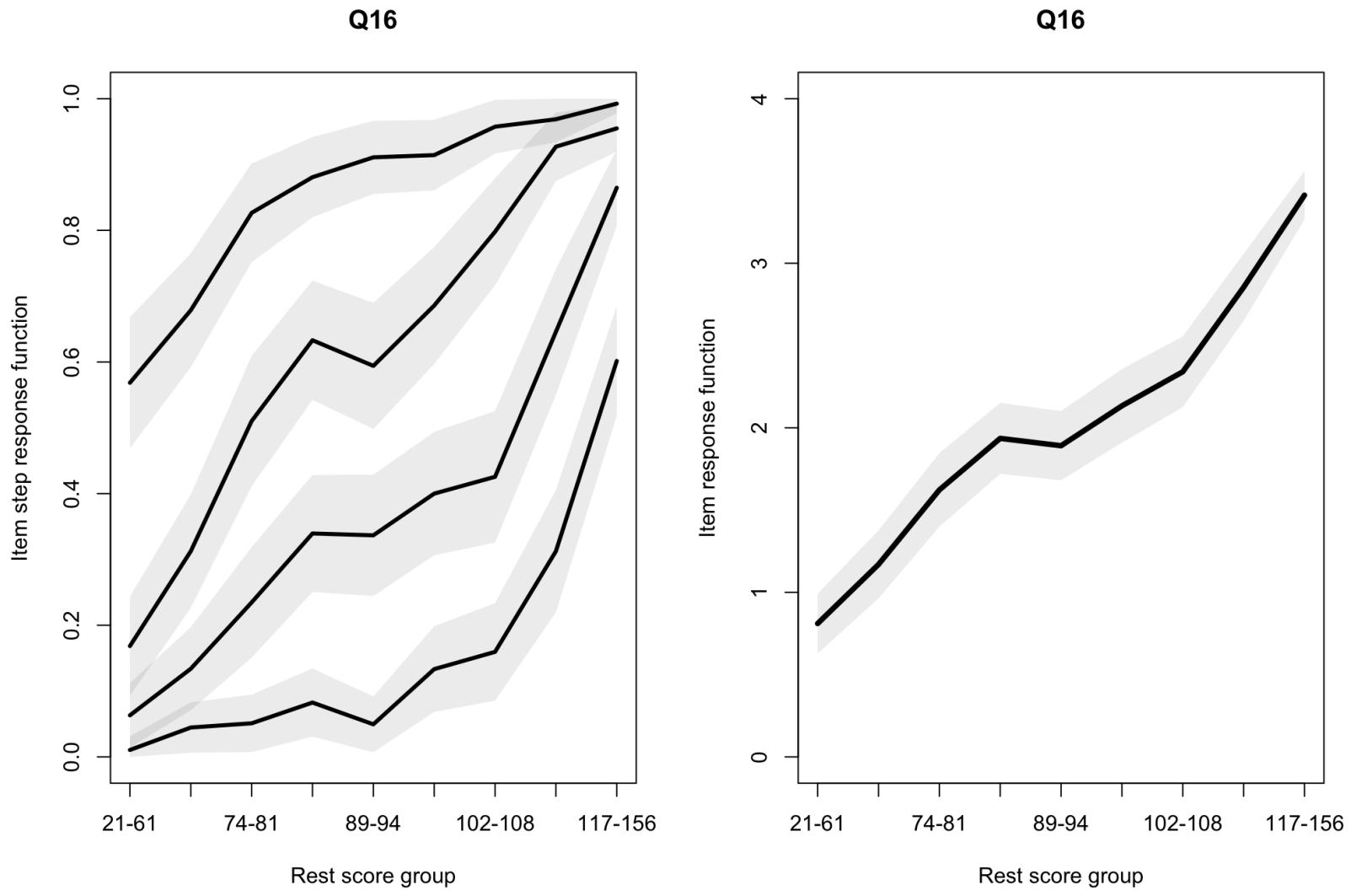
**Q14**

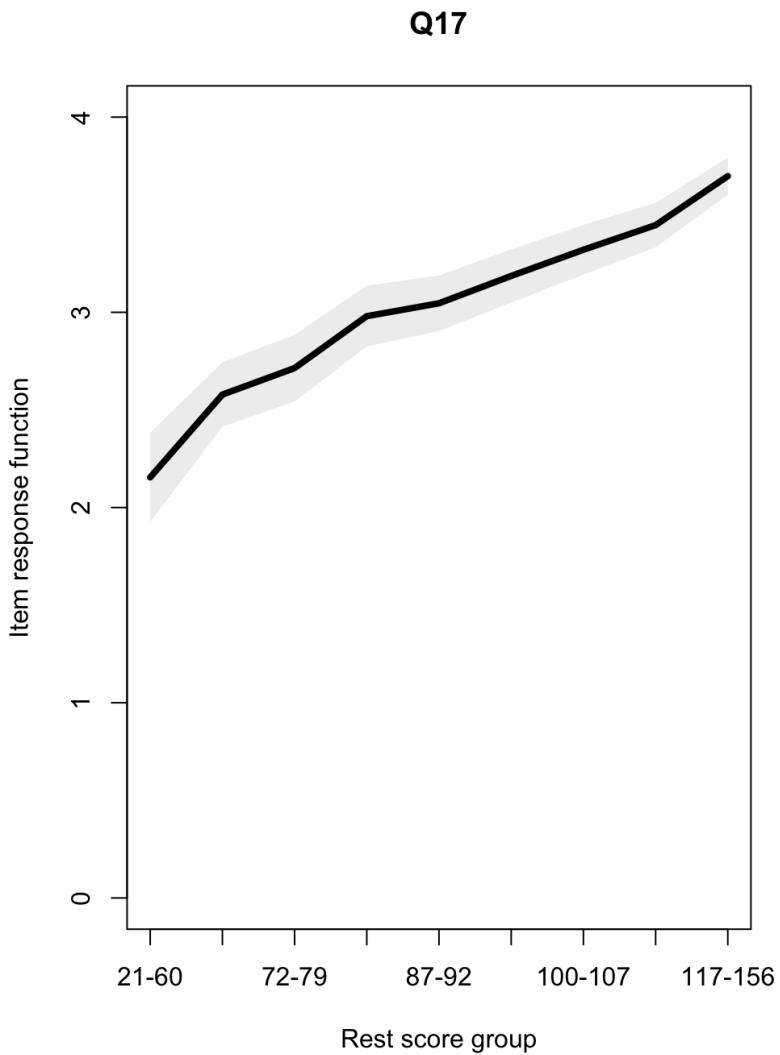
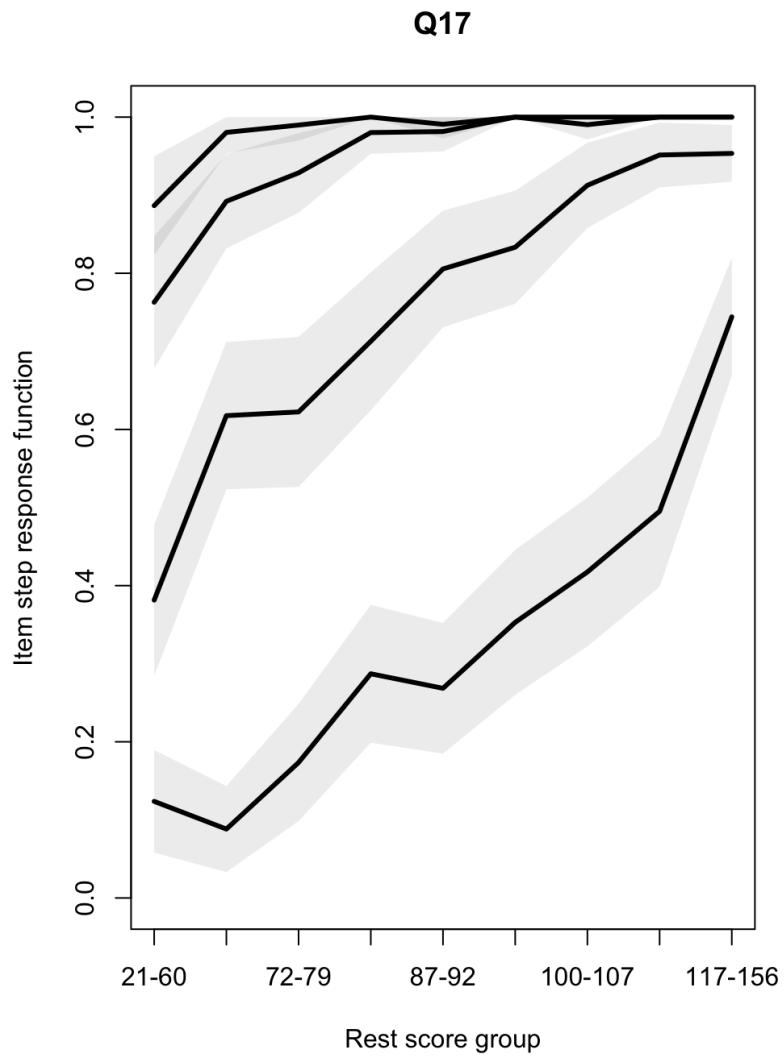


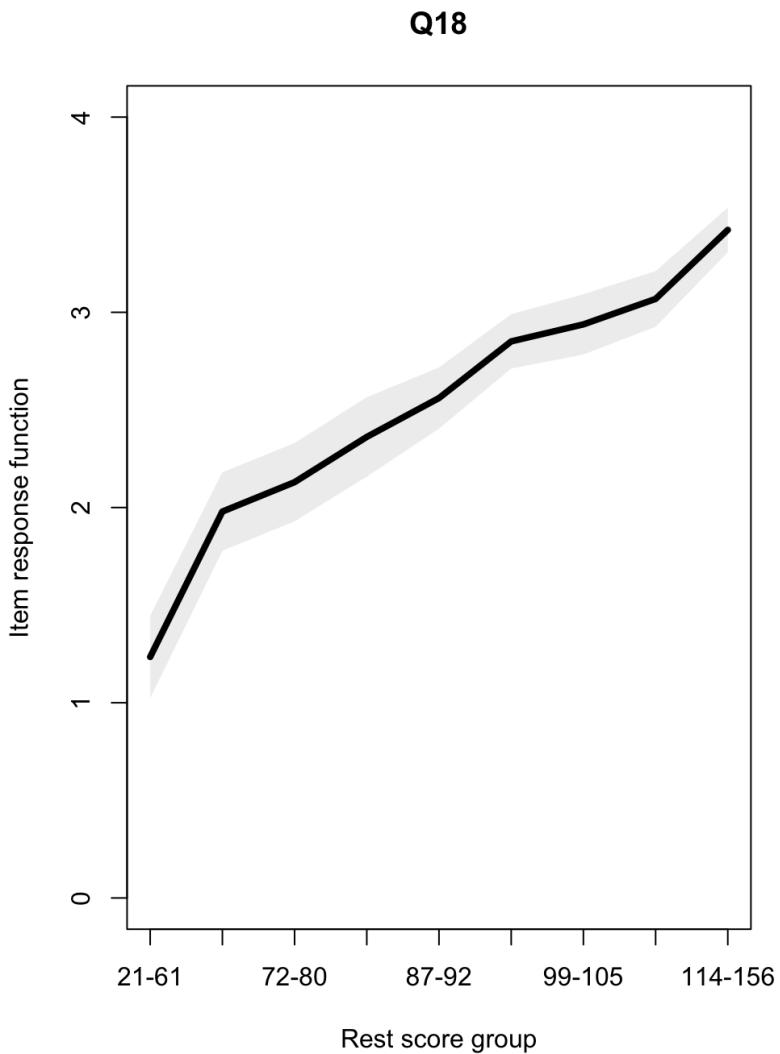
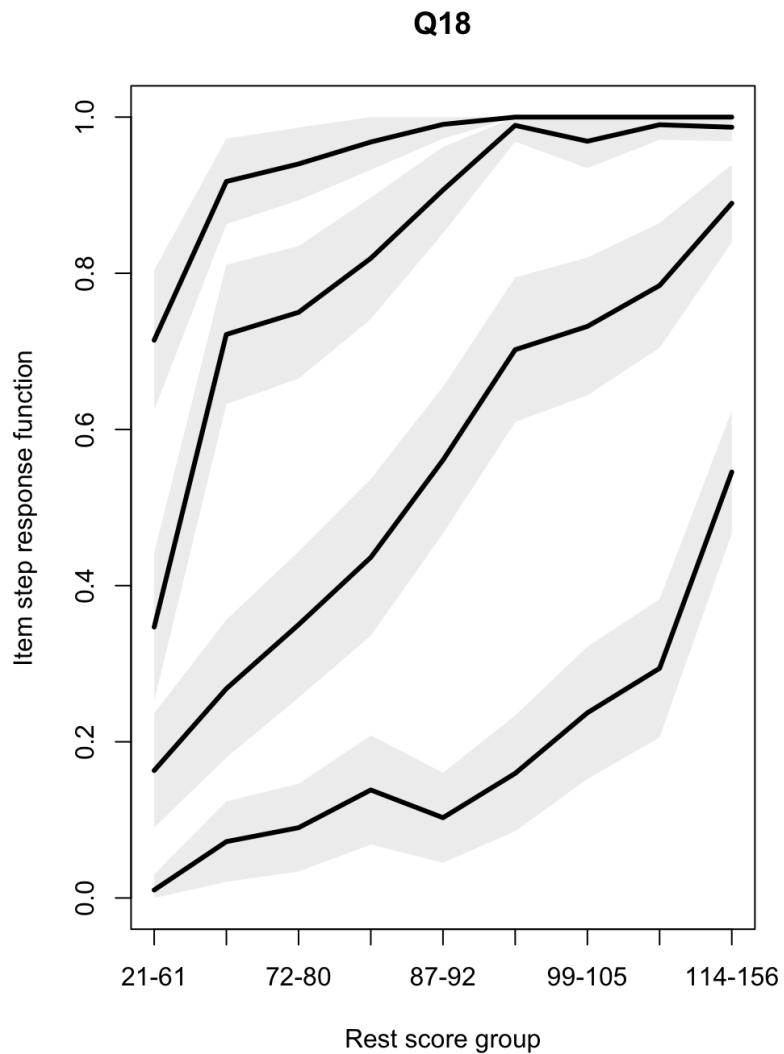
**Q14**

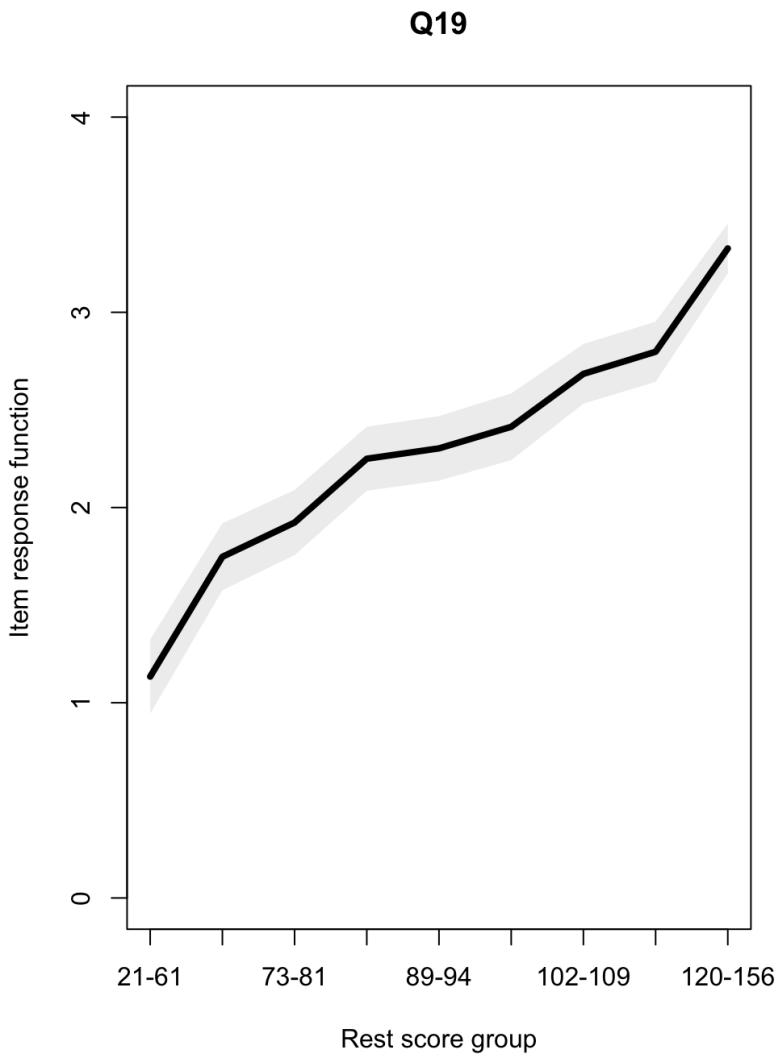
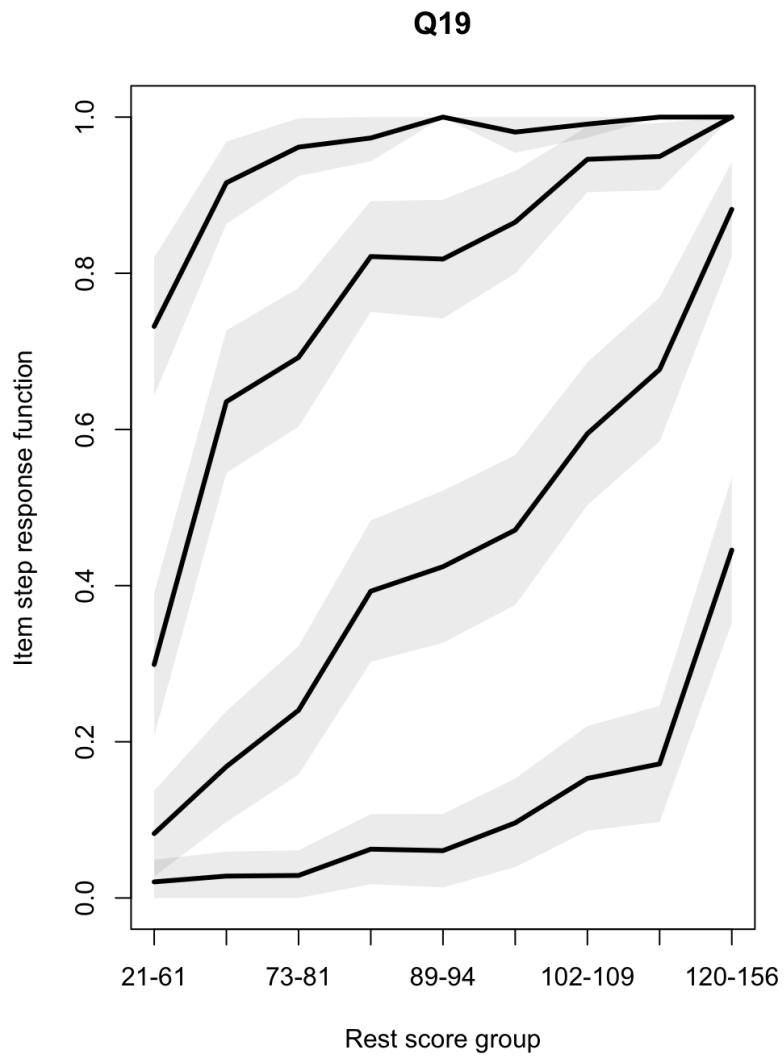




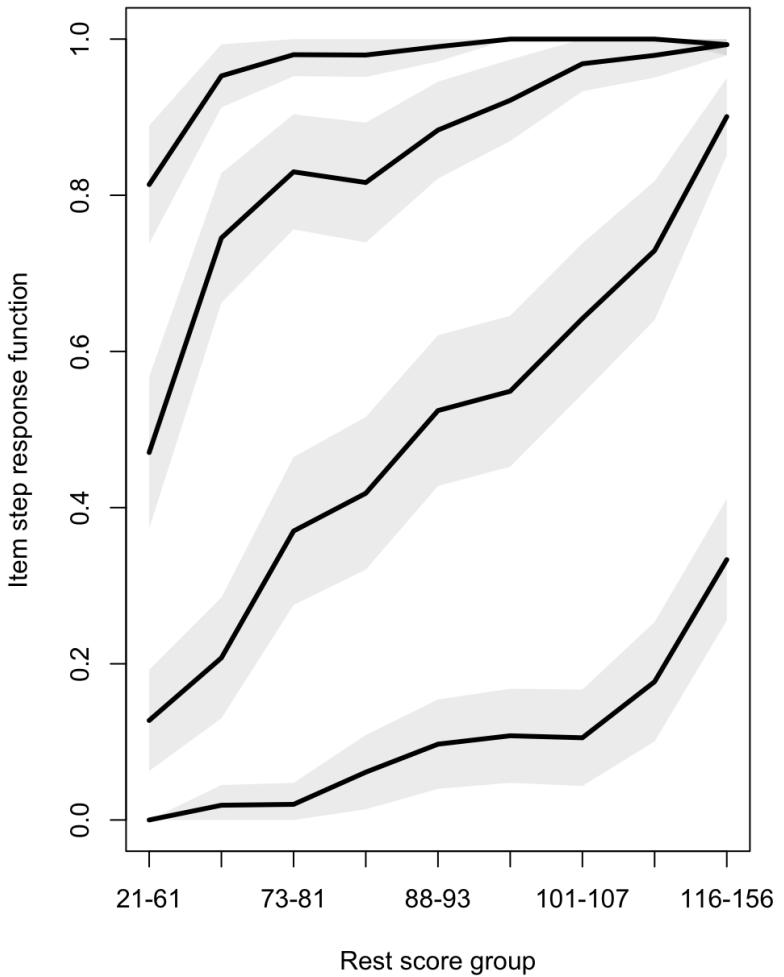




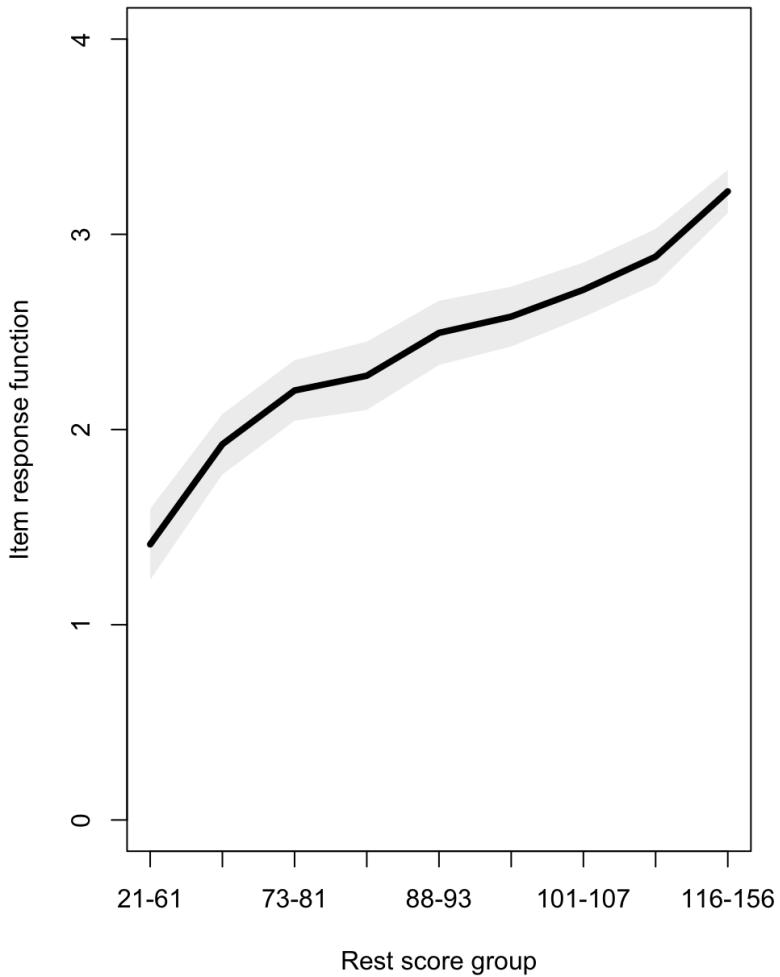




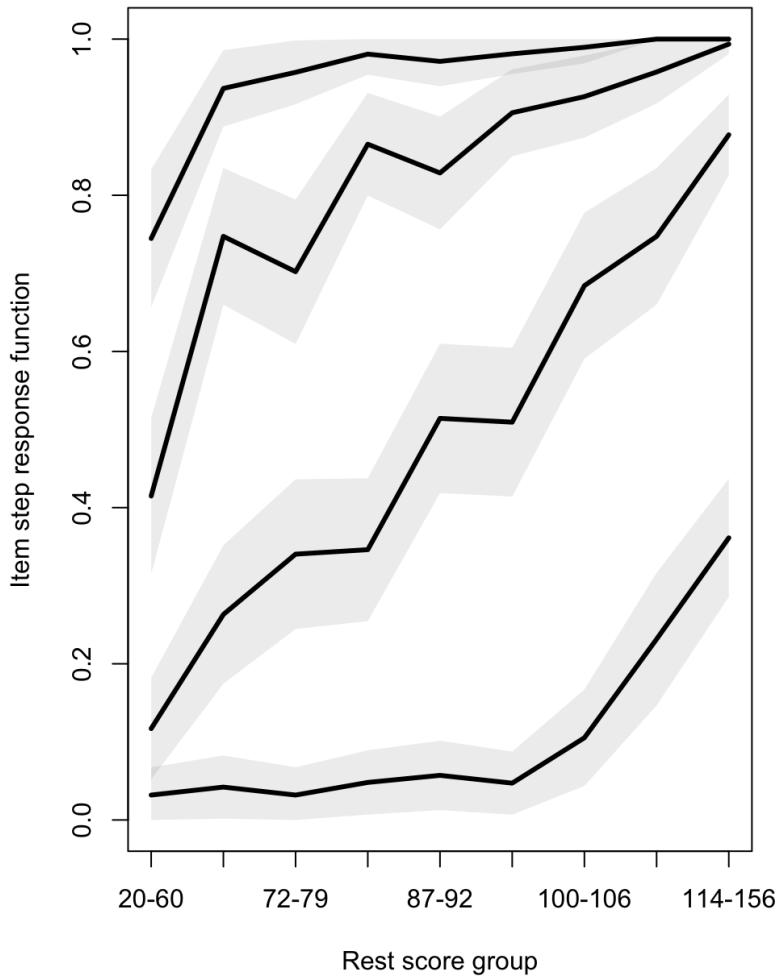
**Q20**



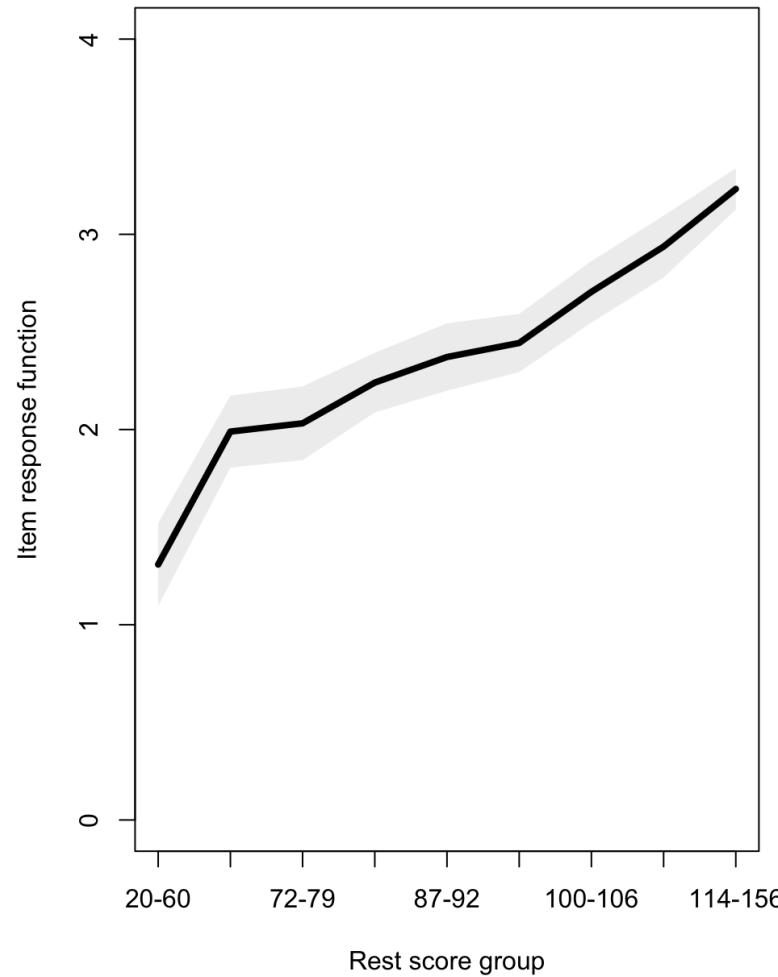
**Q20**



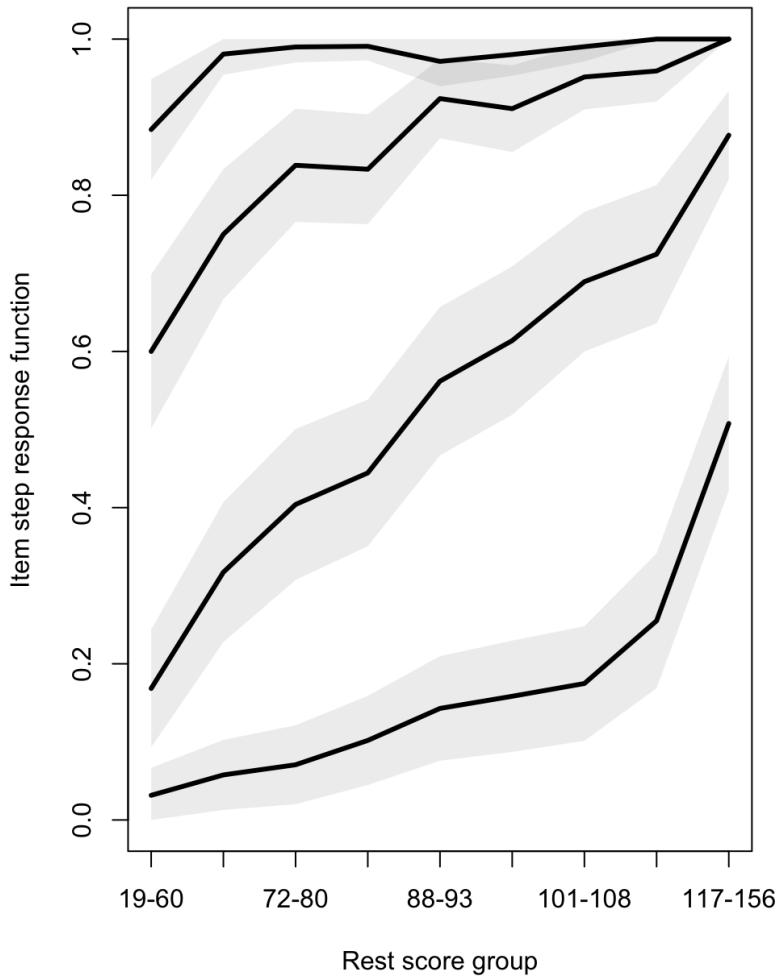
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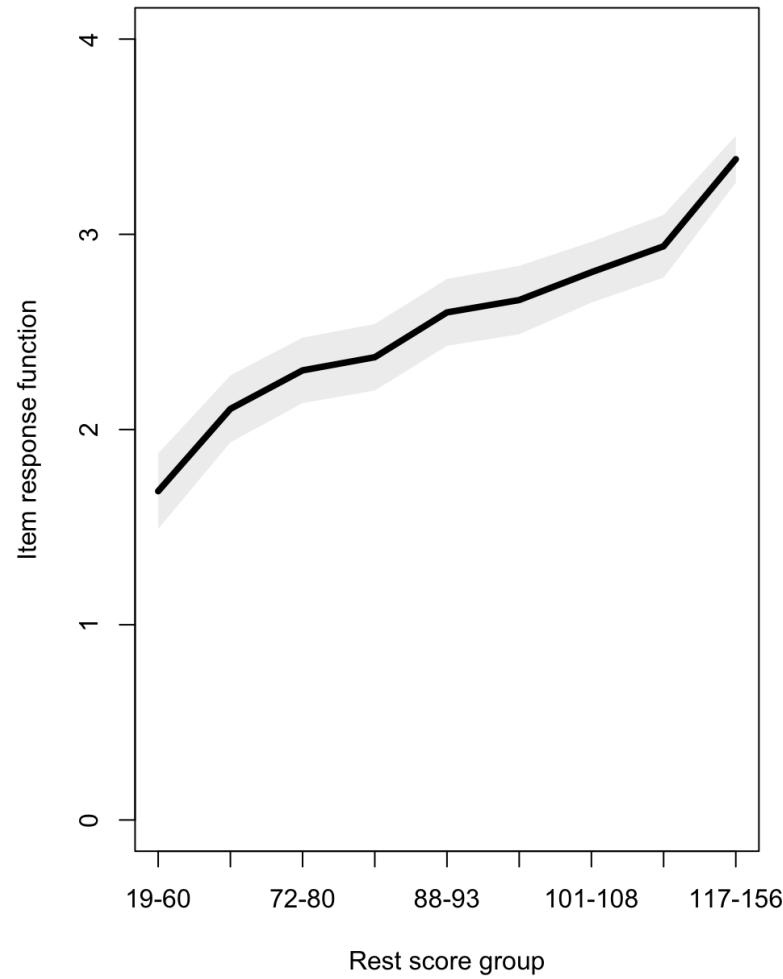
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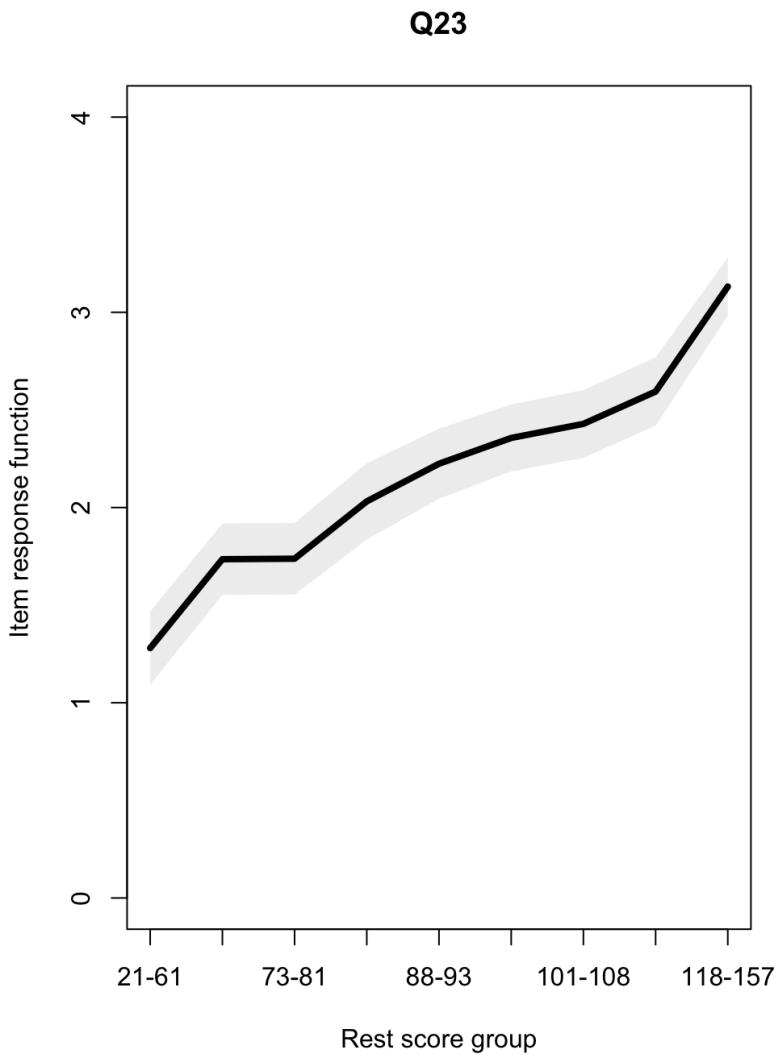
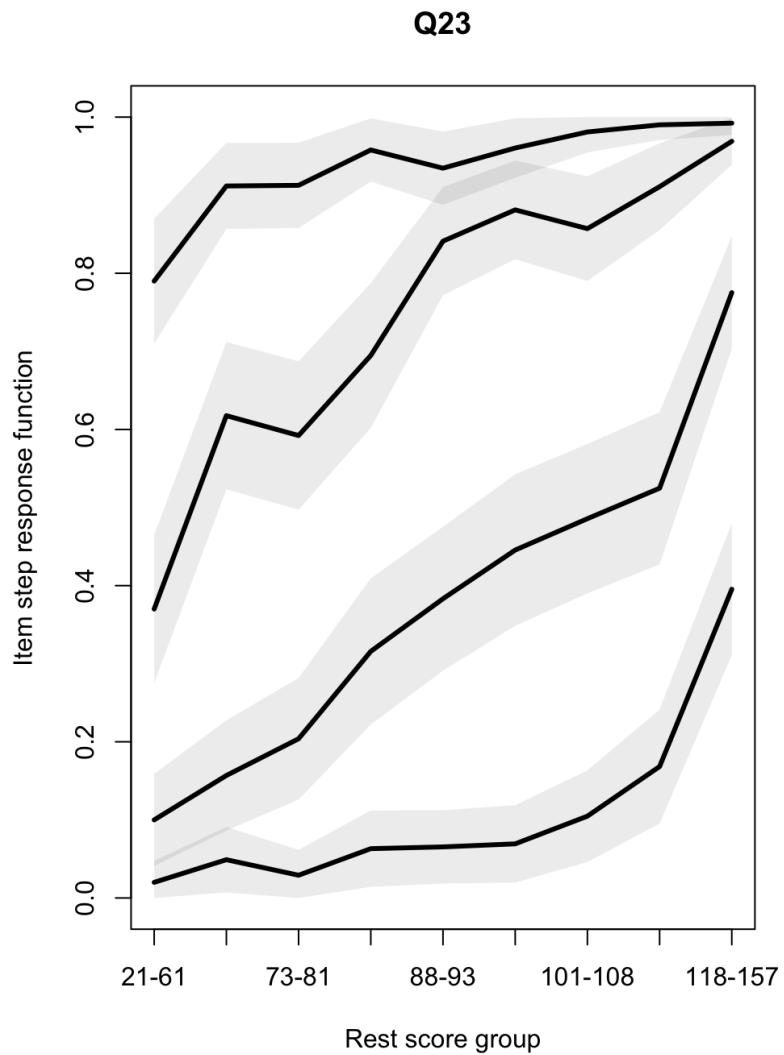


**Q22**

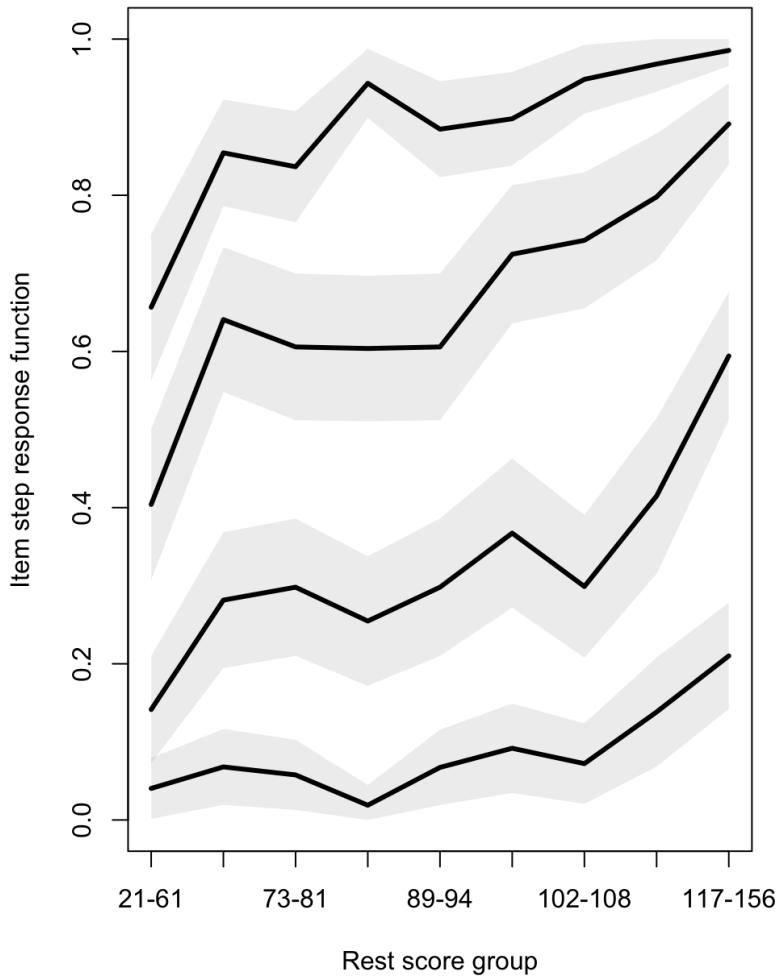


**Q22**

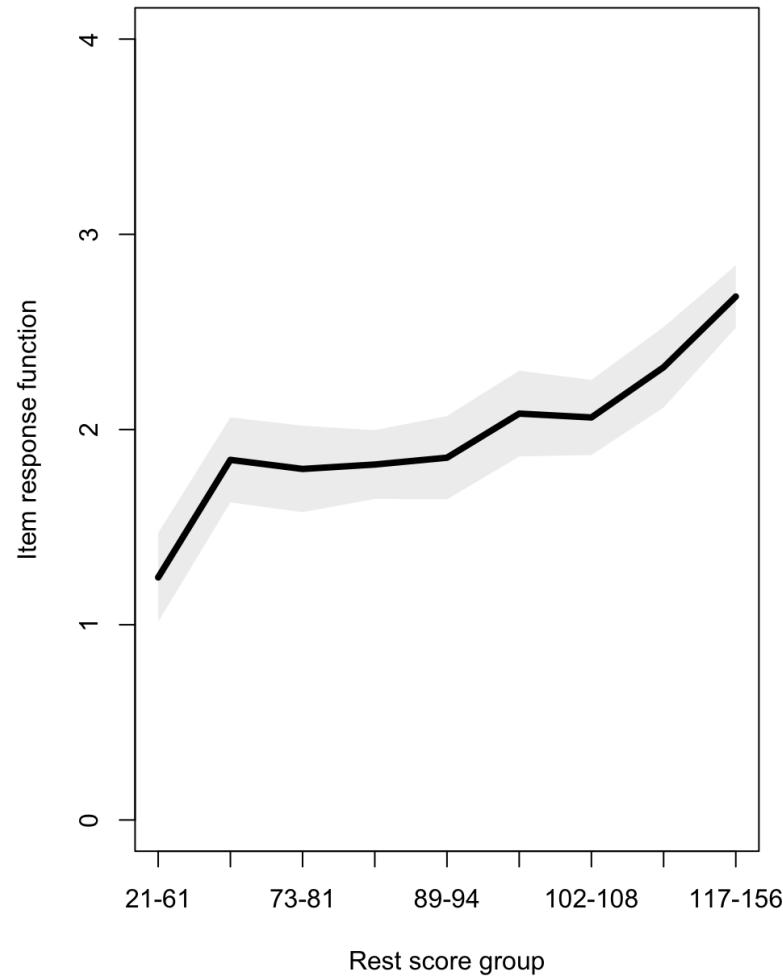


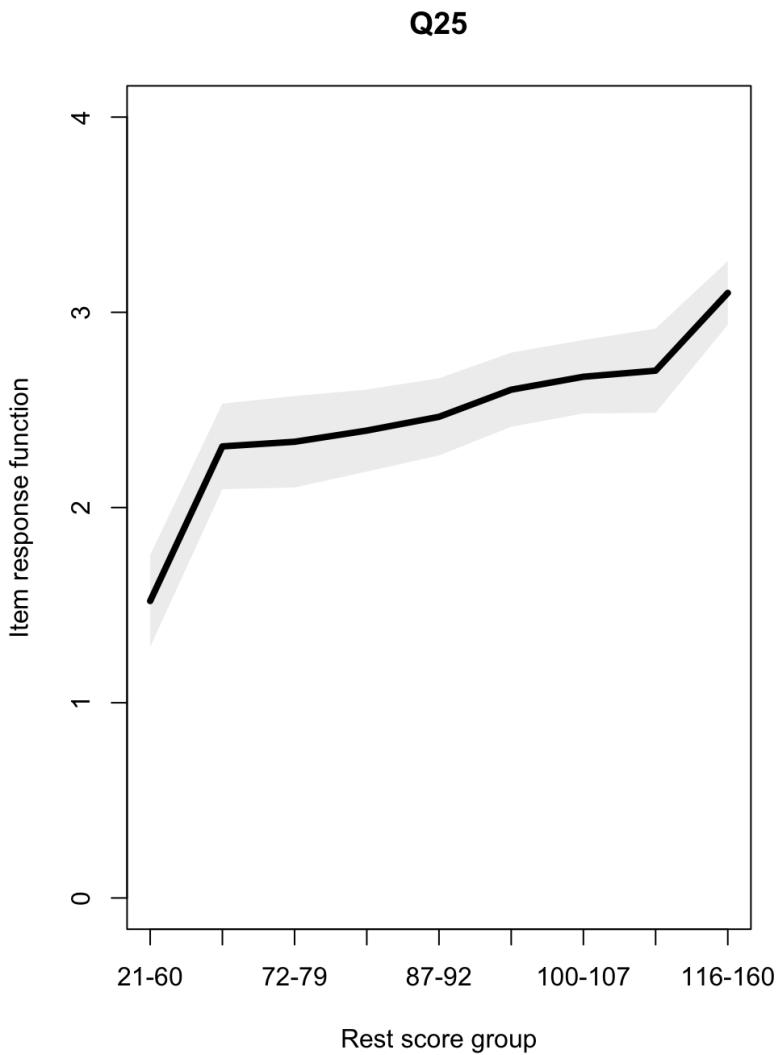
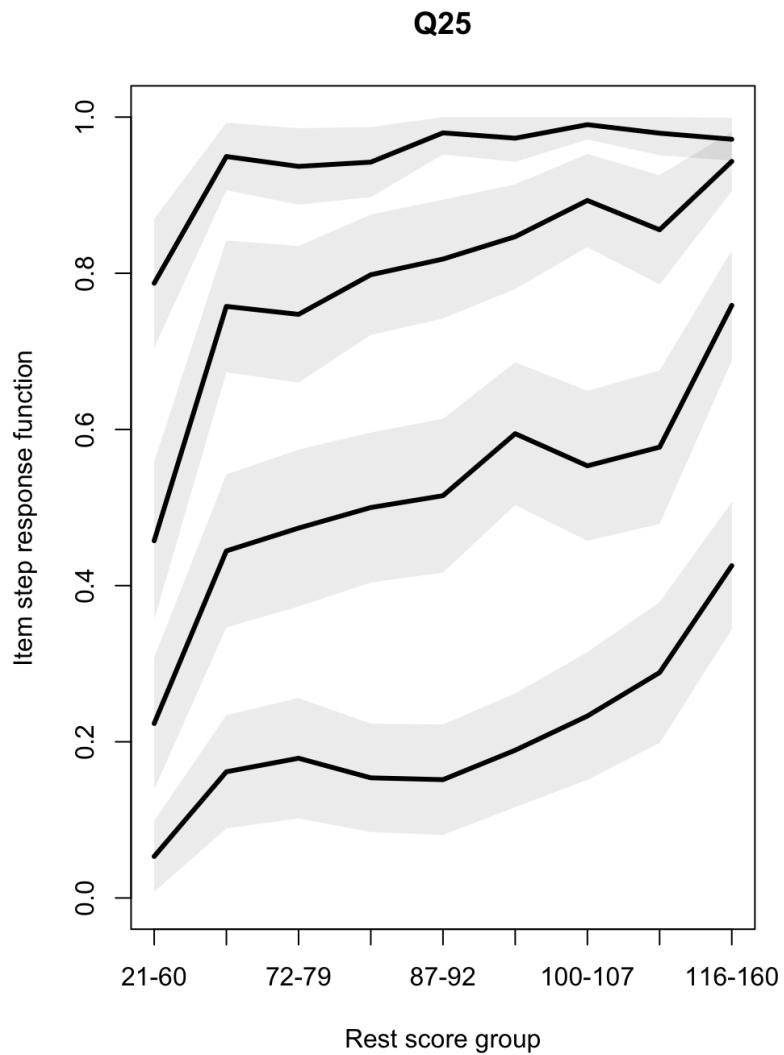


**Q24**

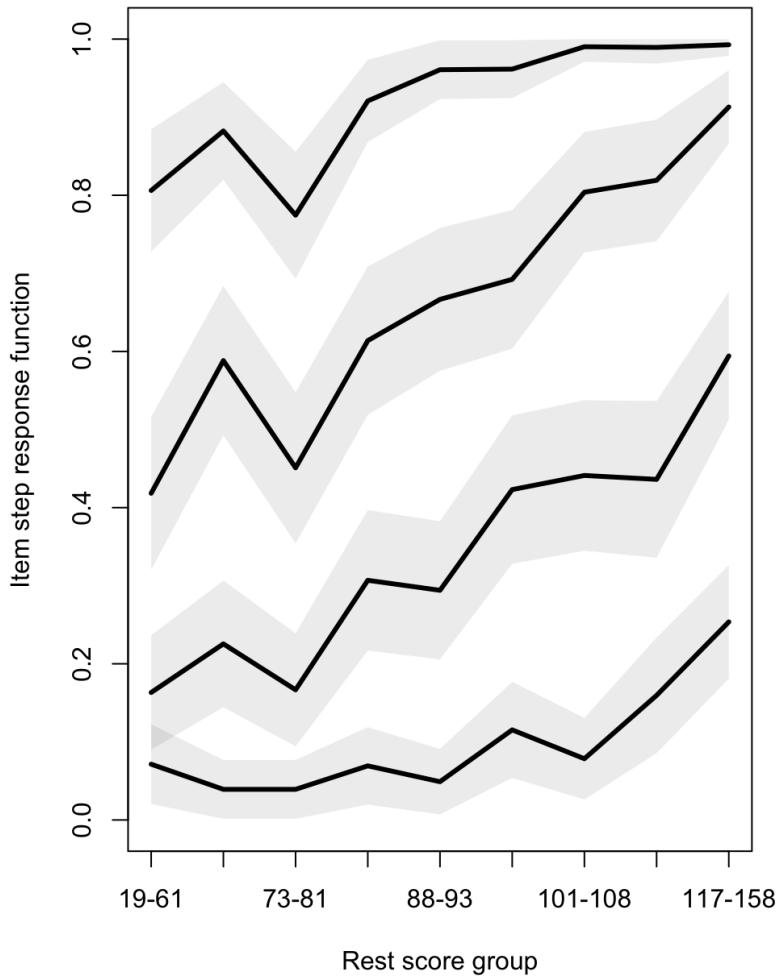


**Q24**

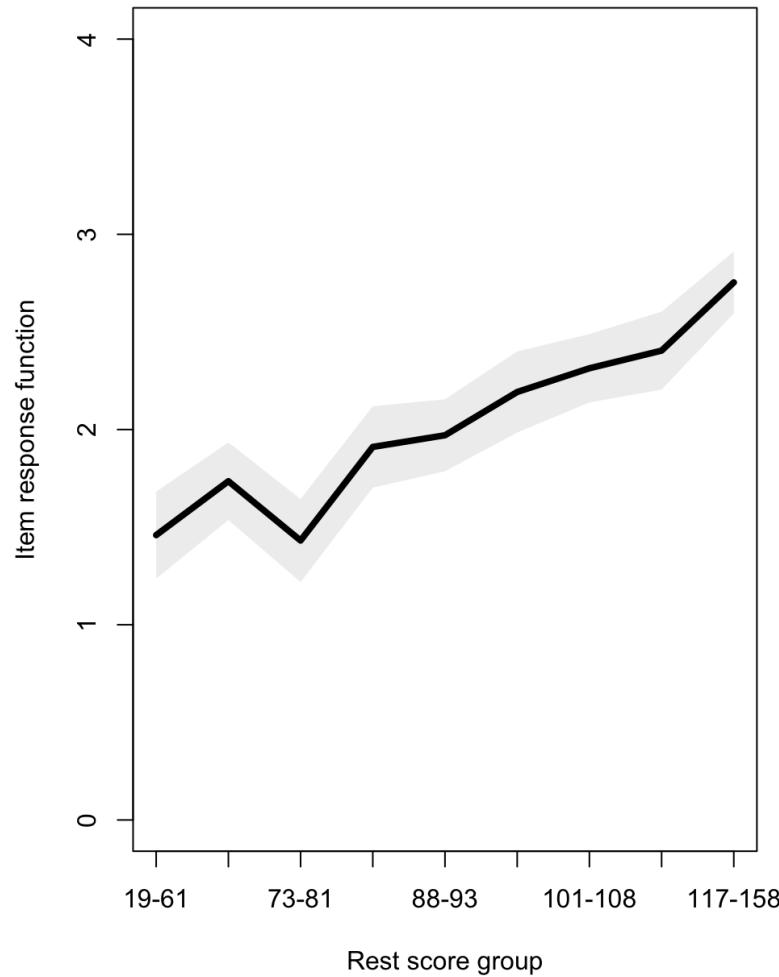




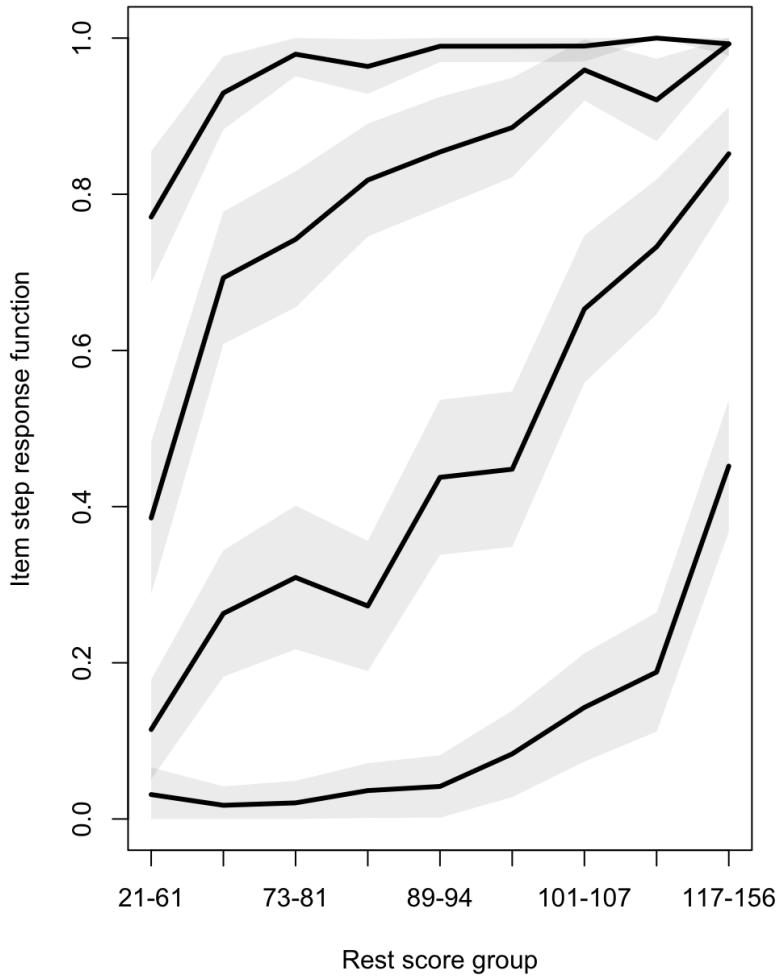
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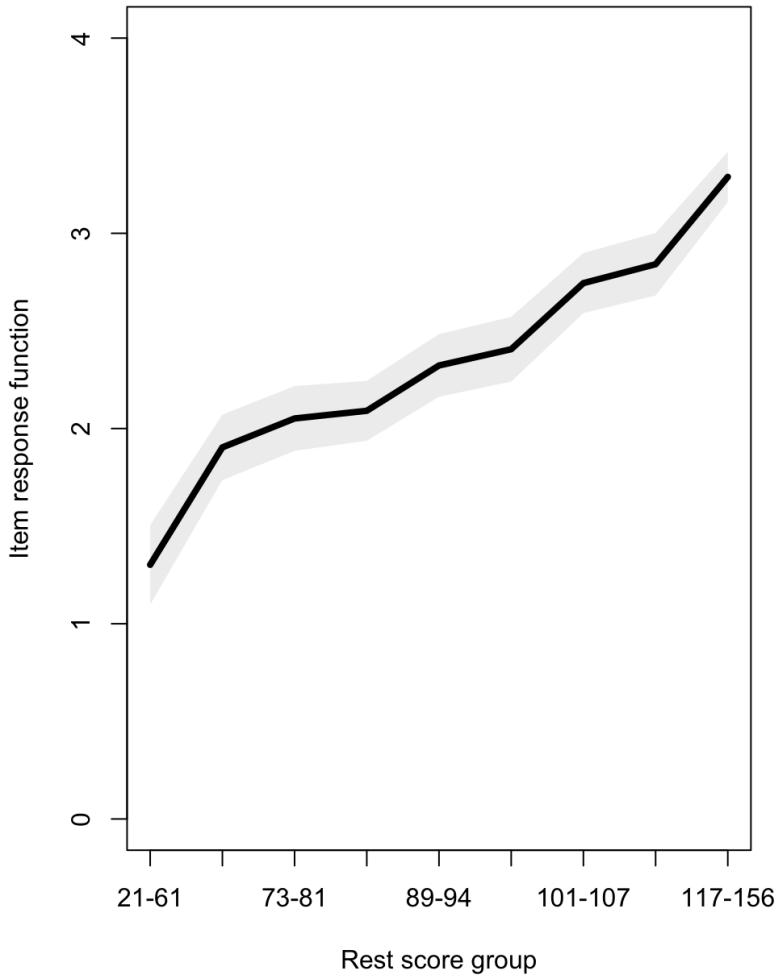
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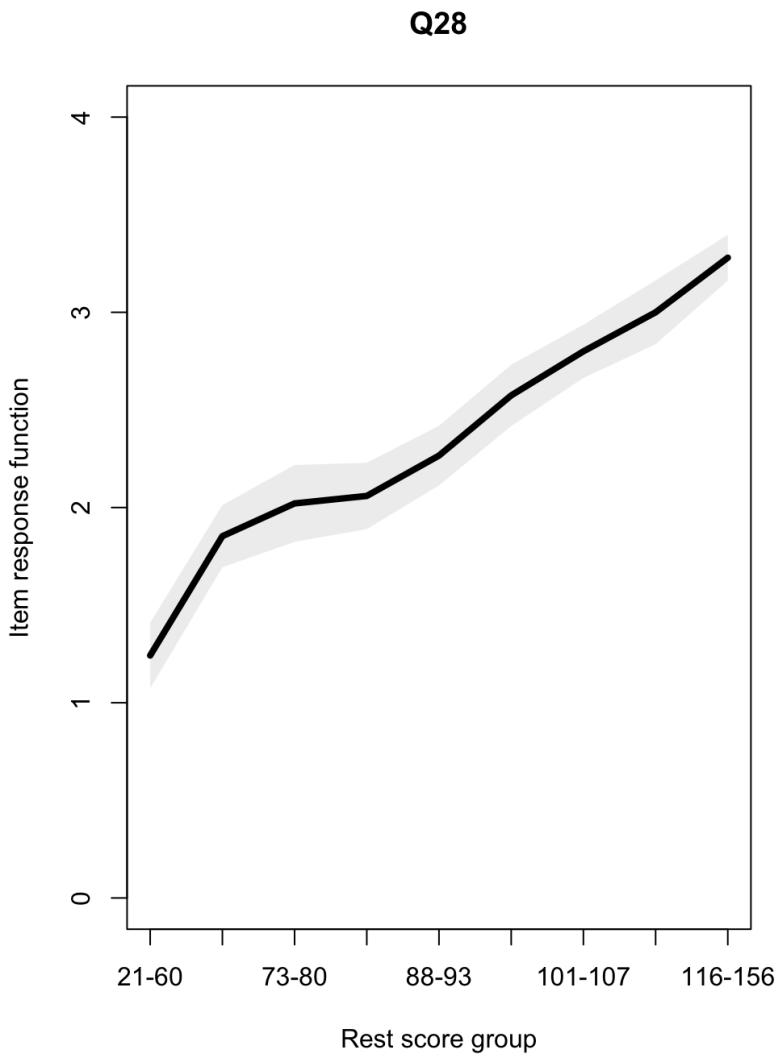
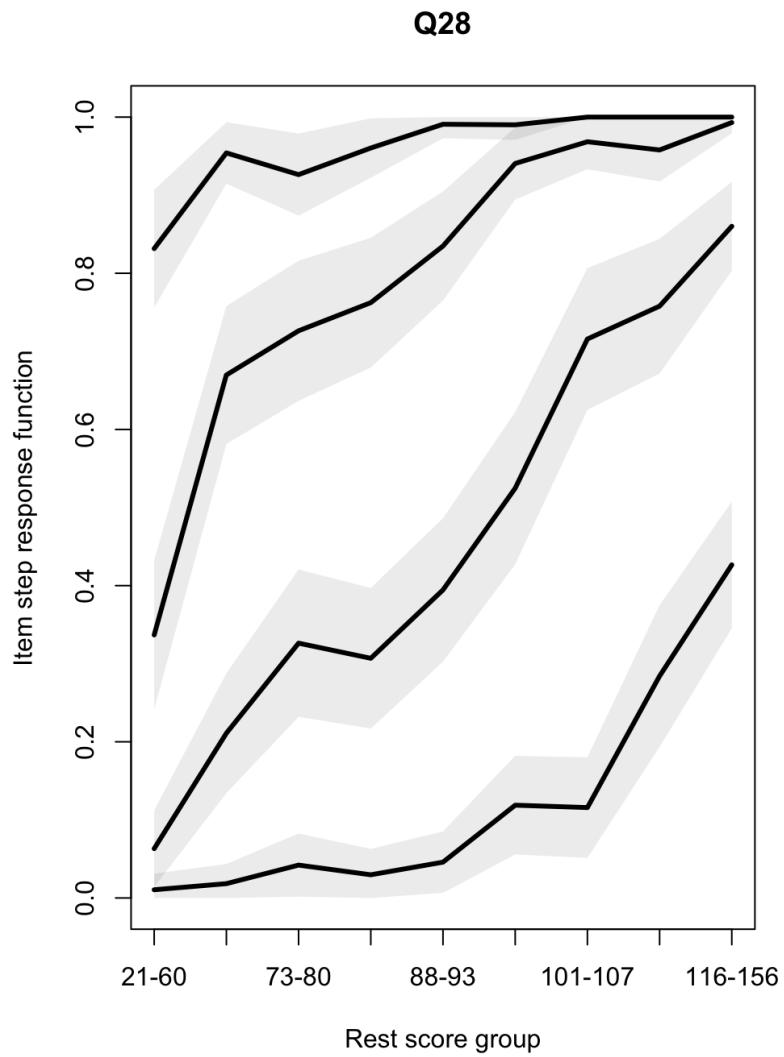


**Q27**

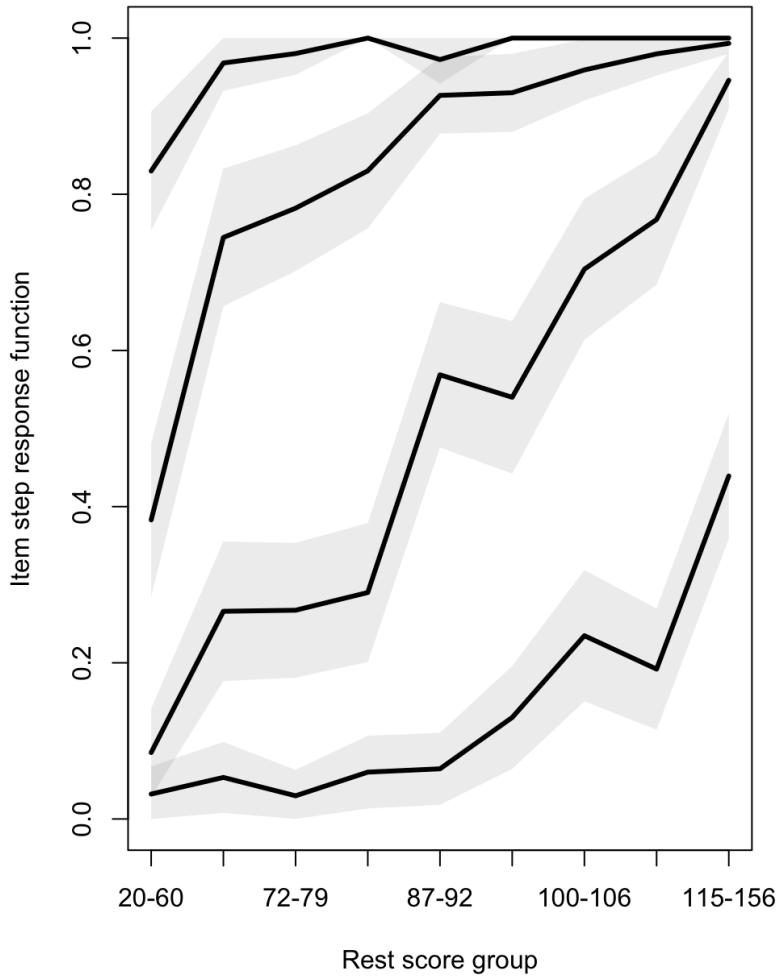


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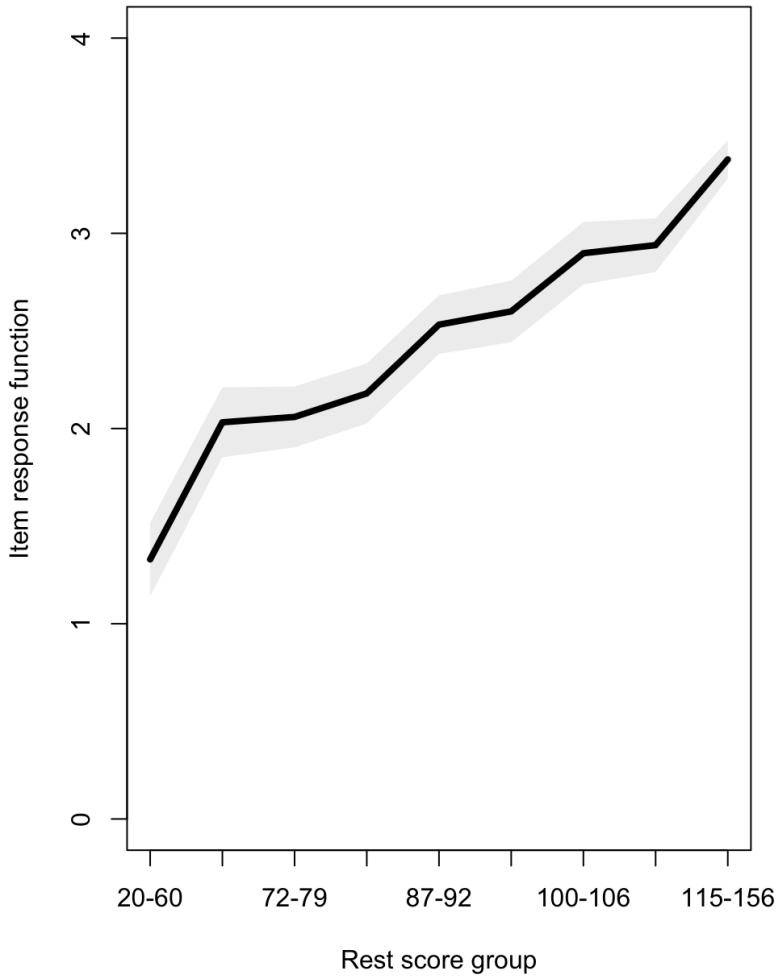


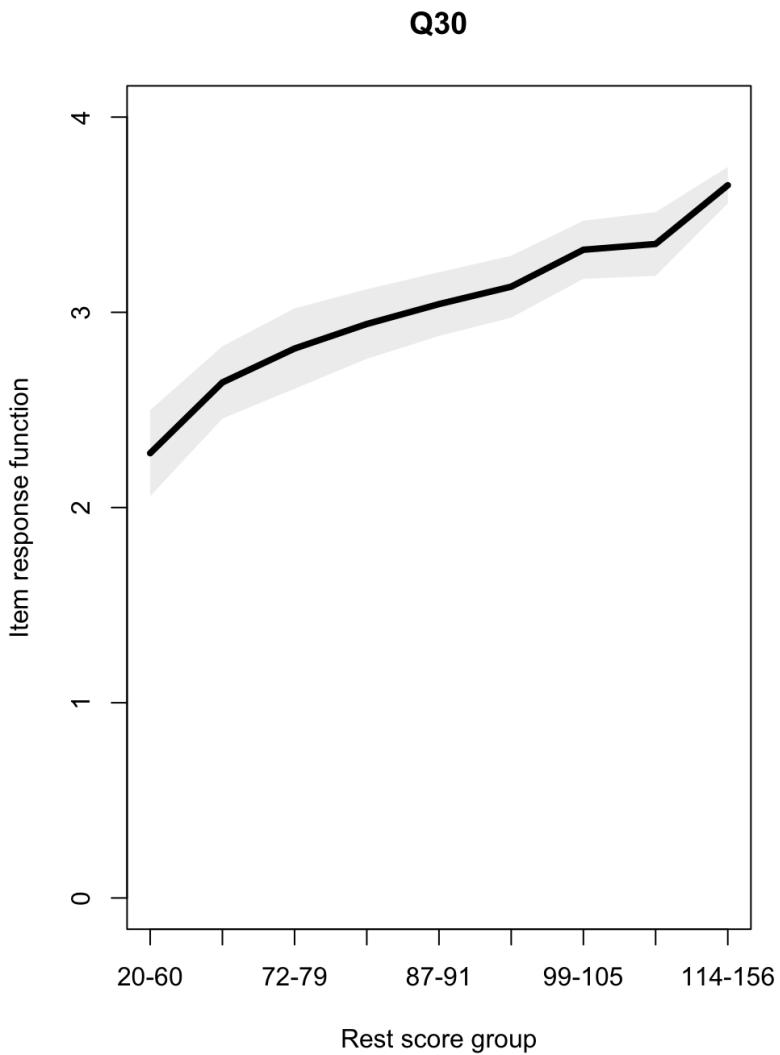
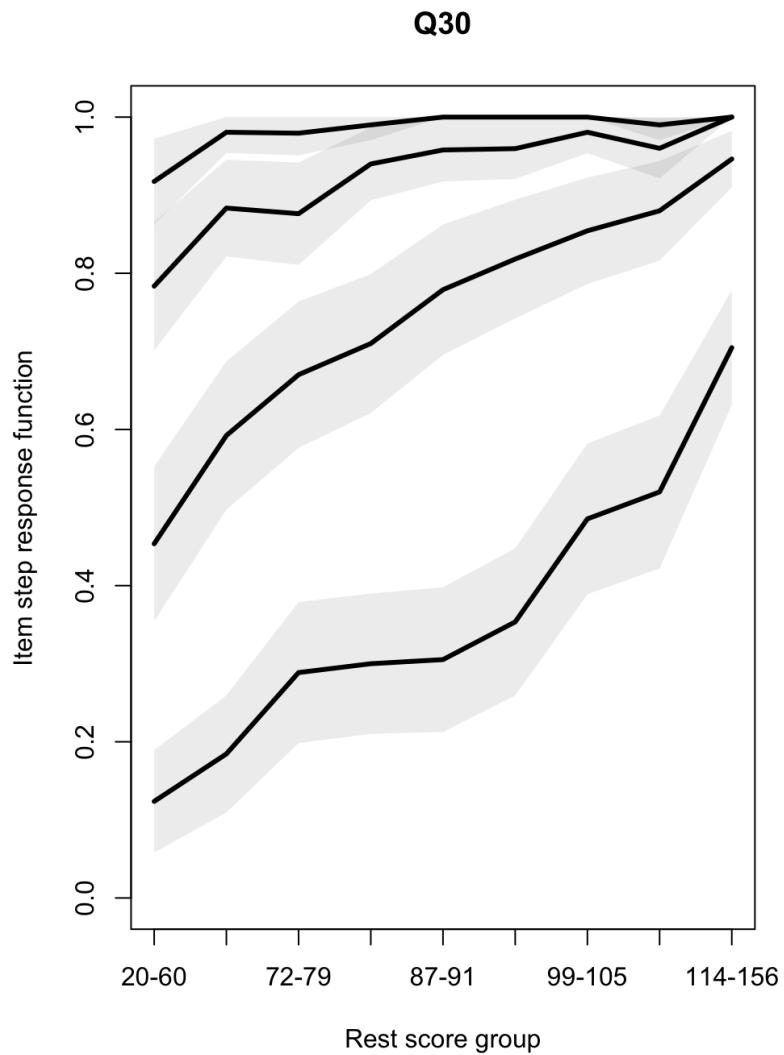


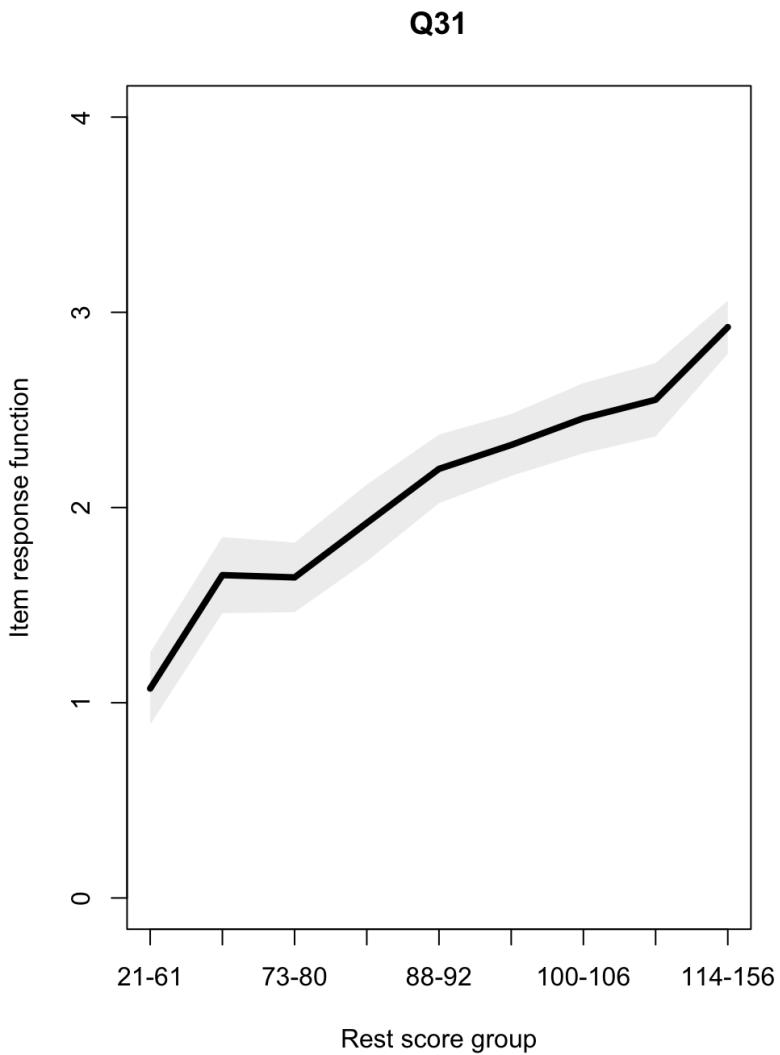
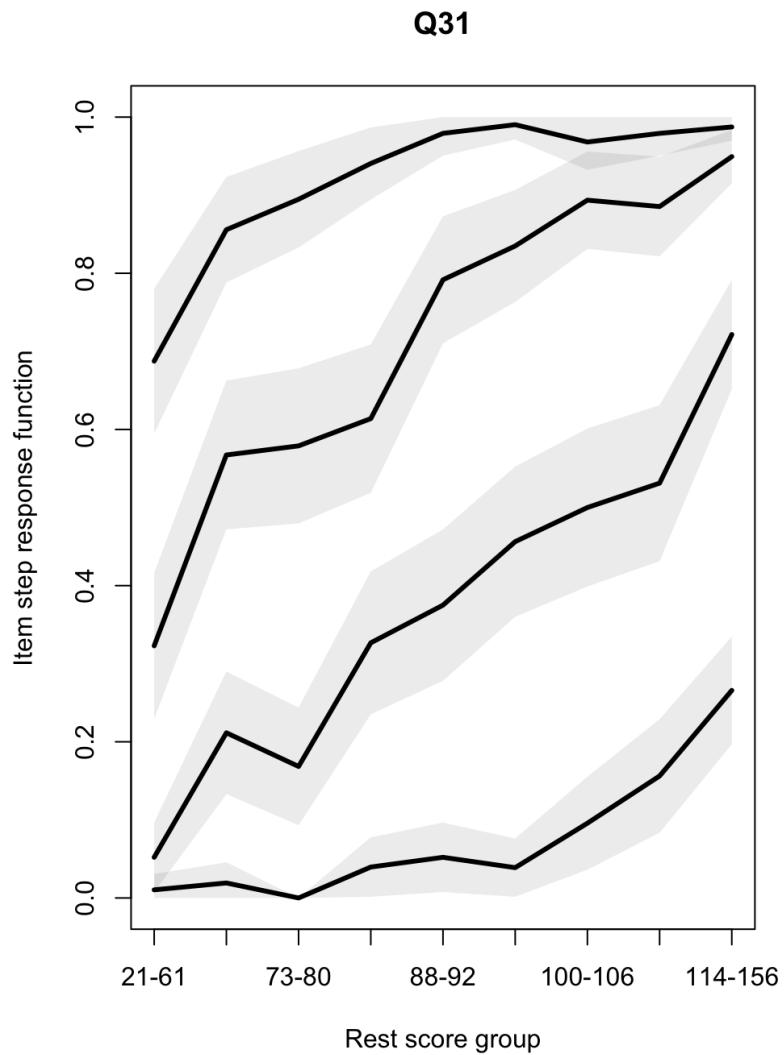
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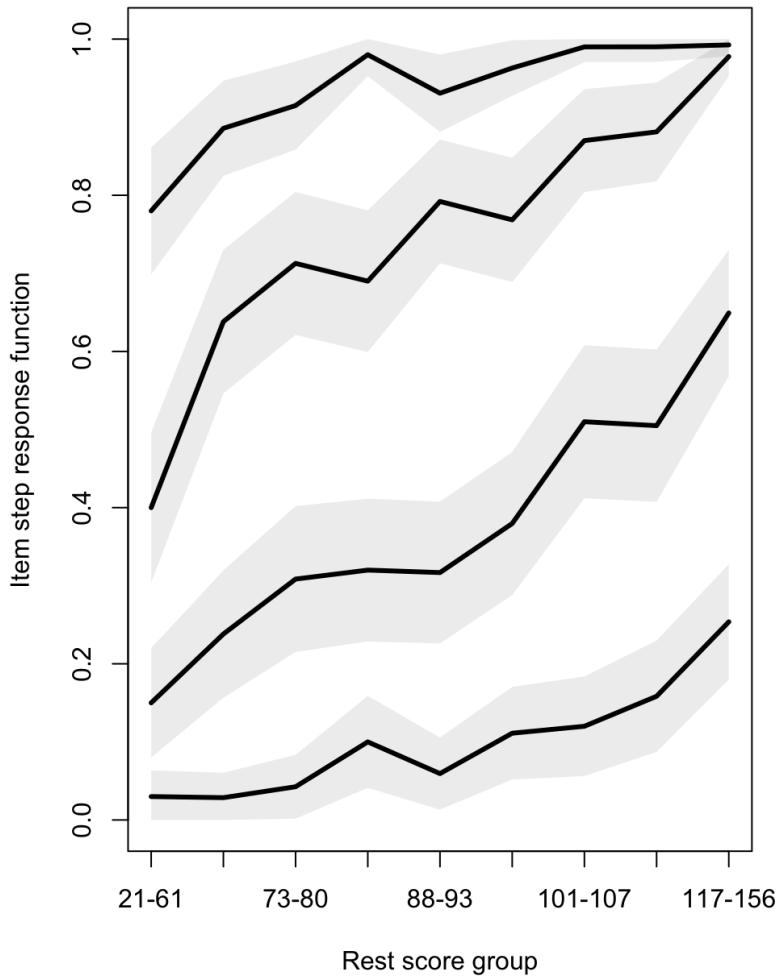
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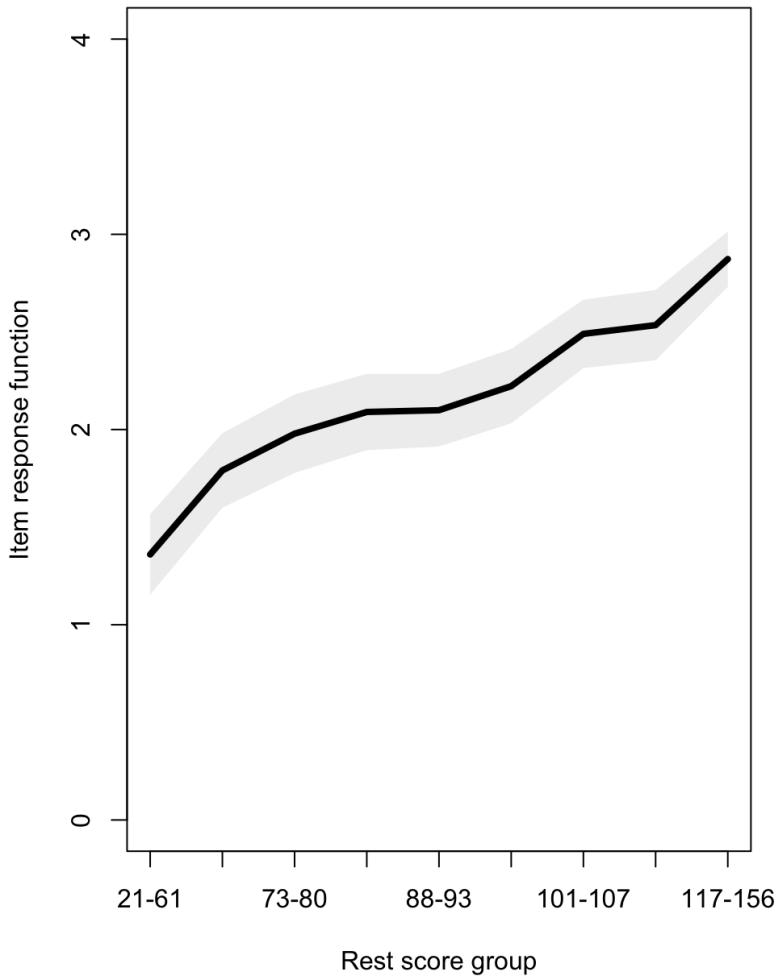


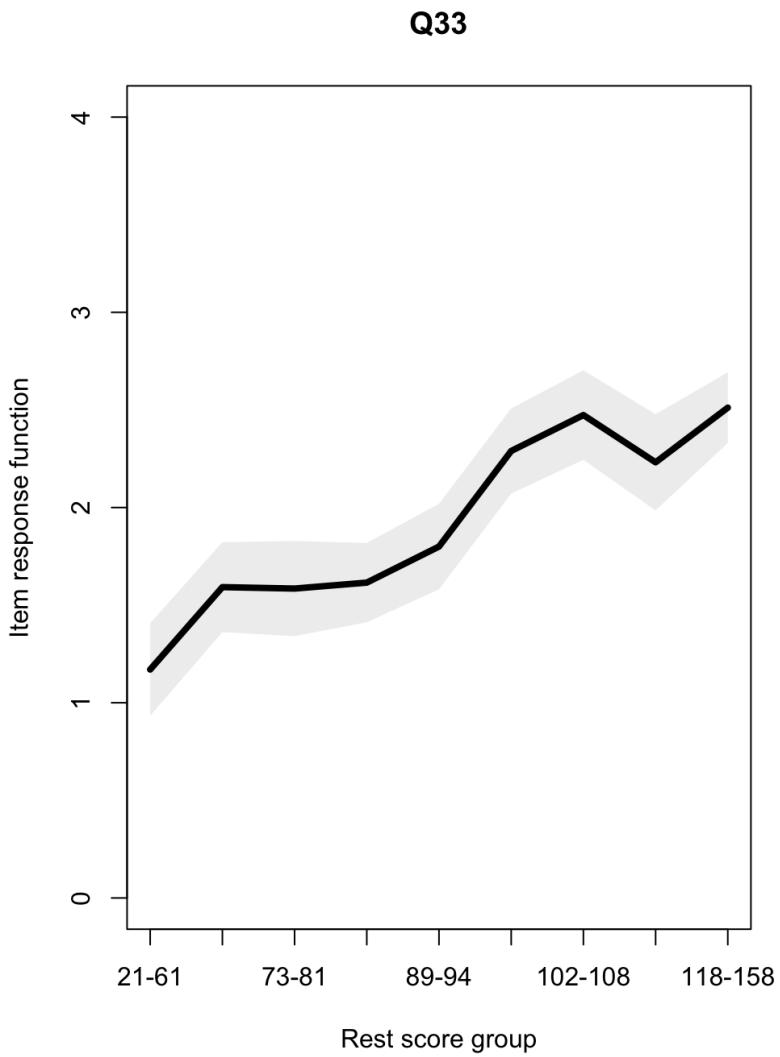
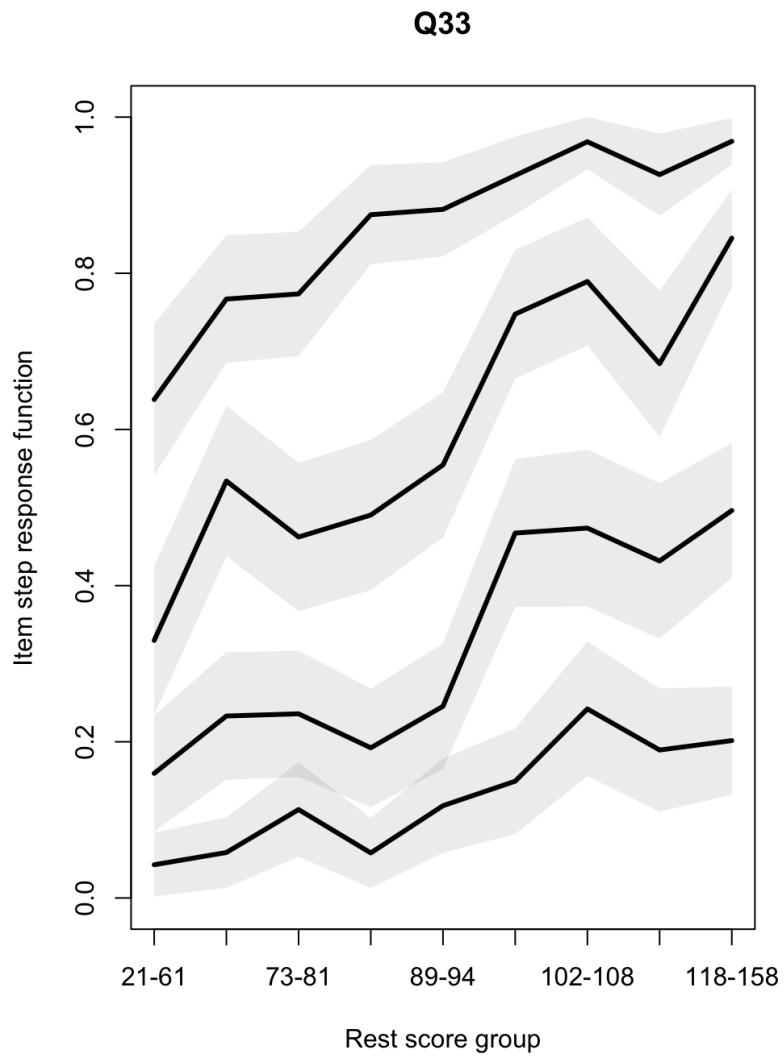


**Q32**

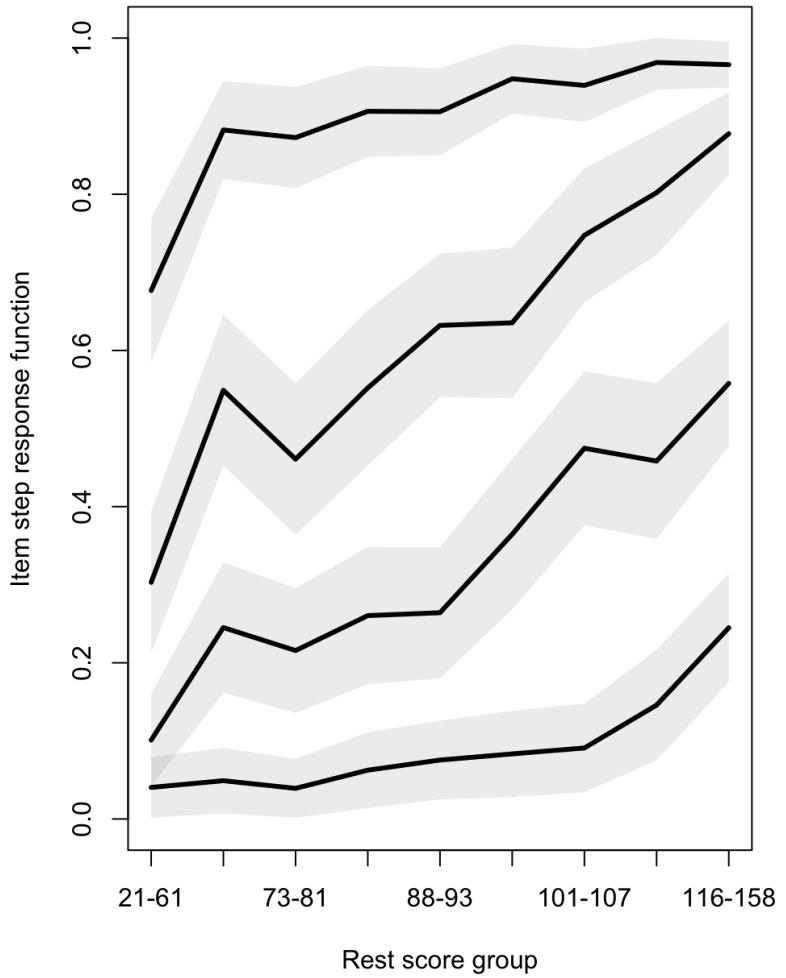


**Q32**

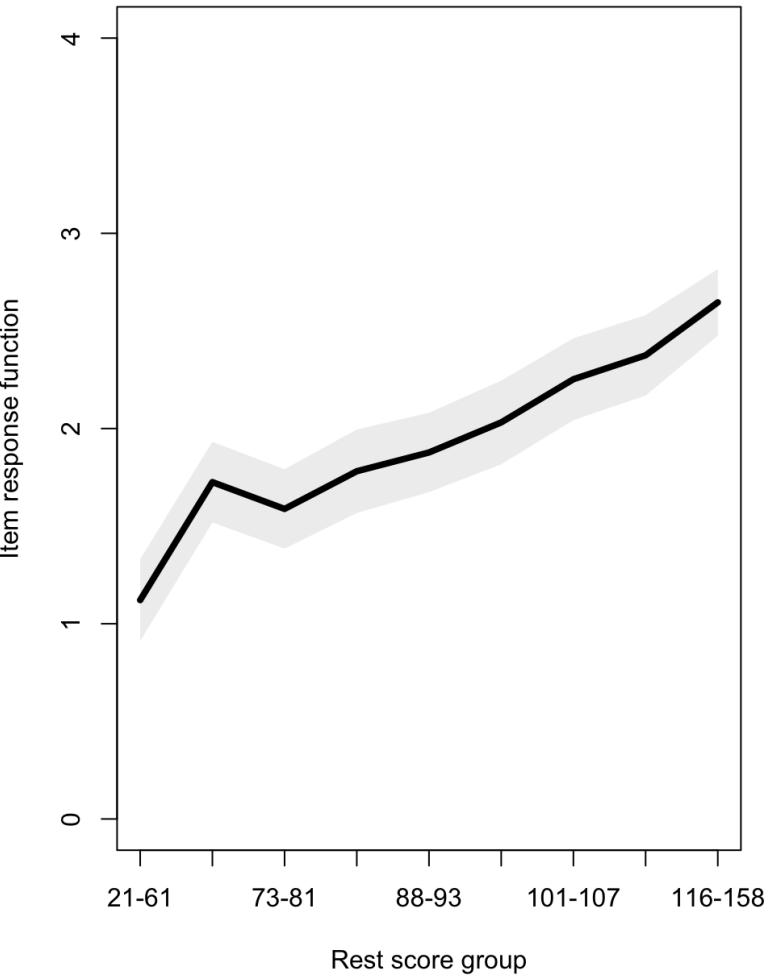


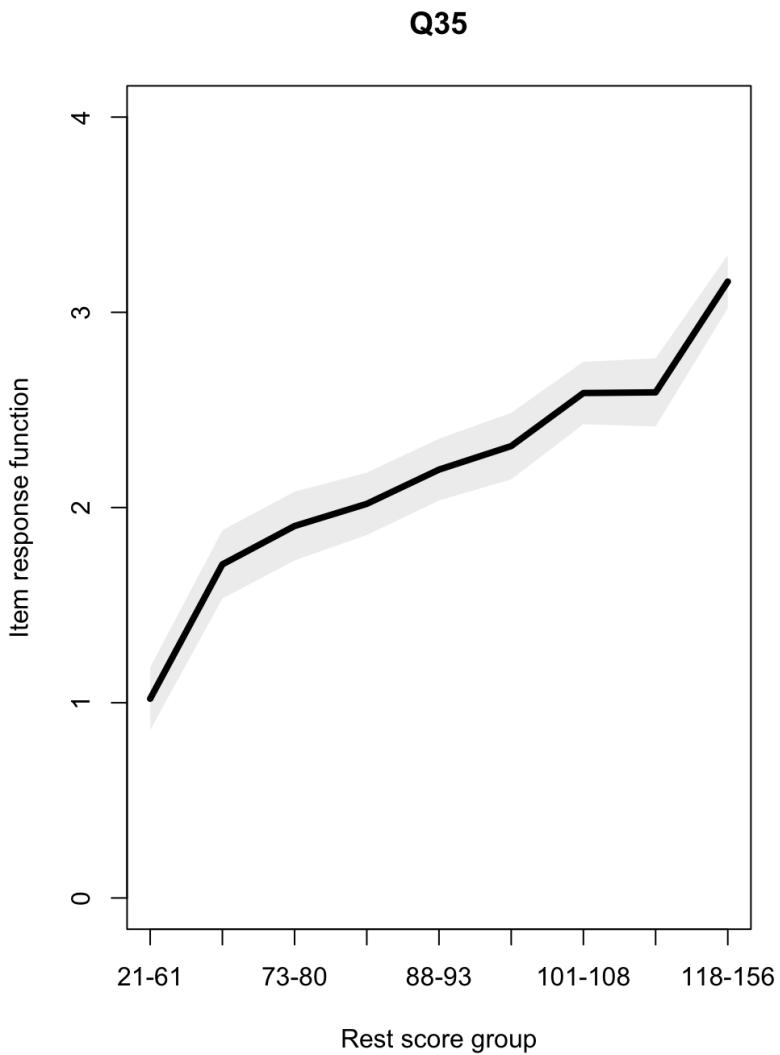
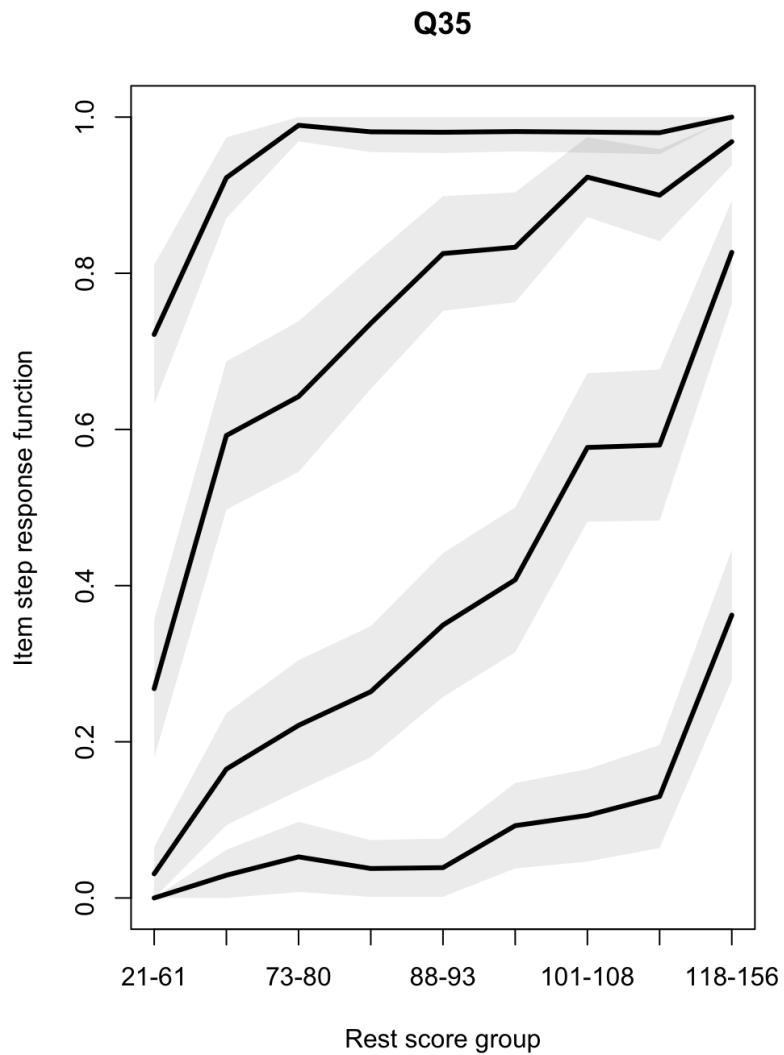


**Q34**

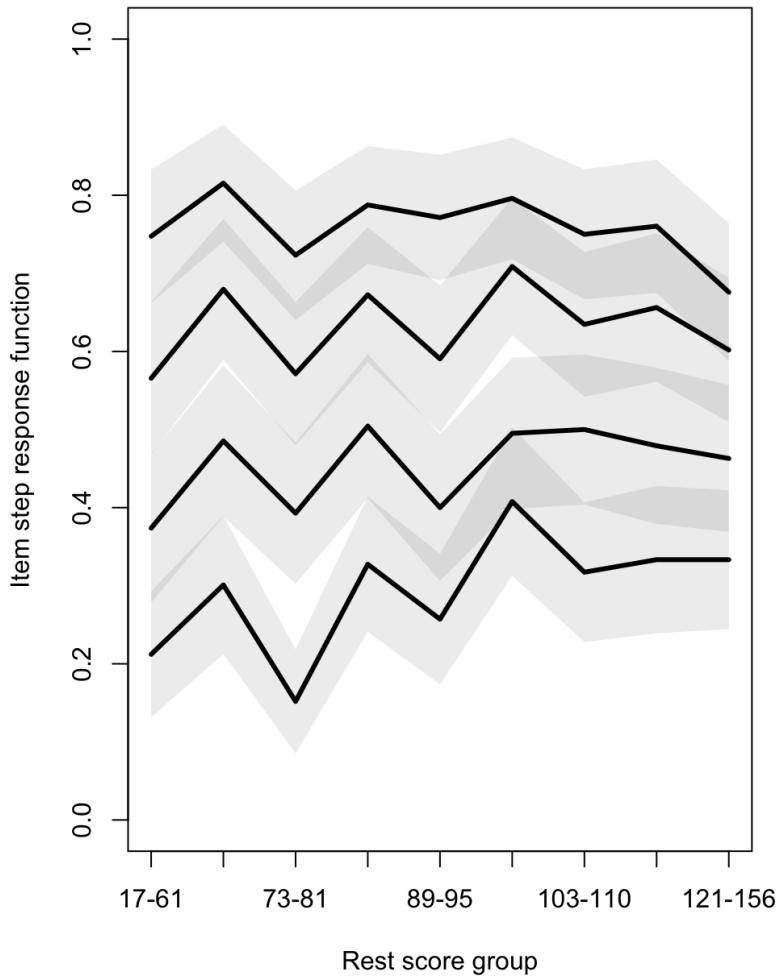


**Q34**

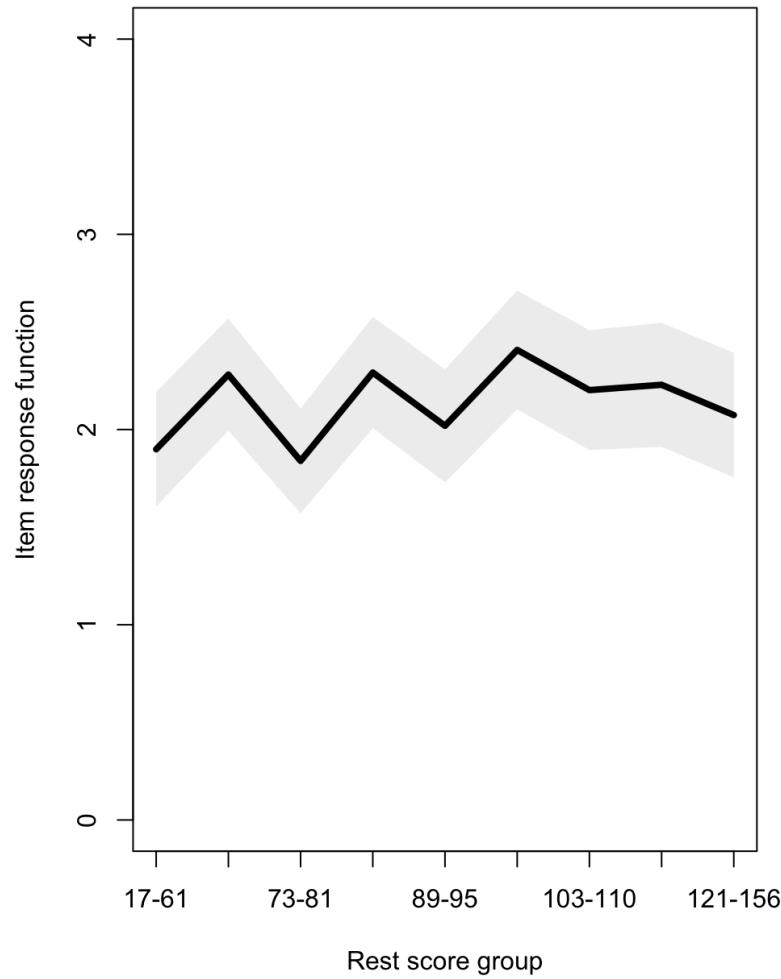




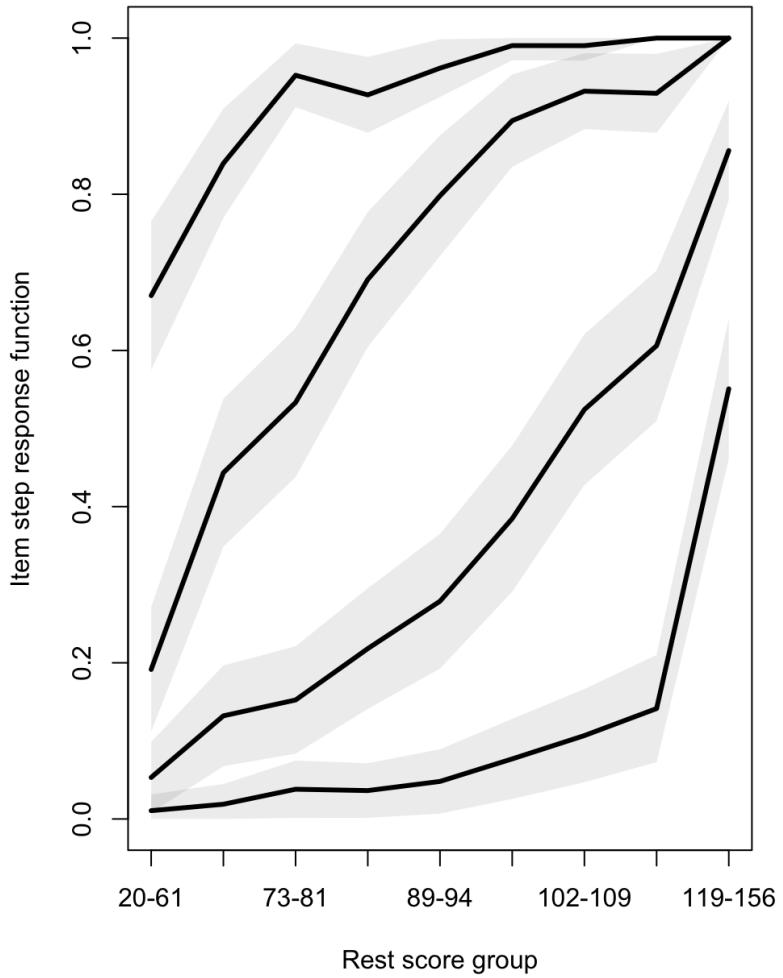
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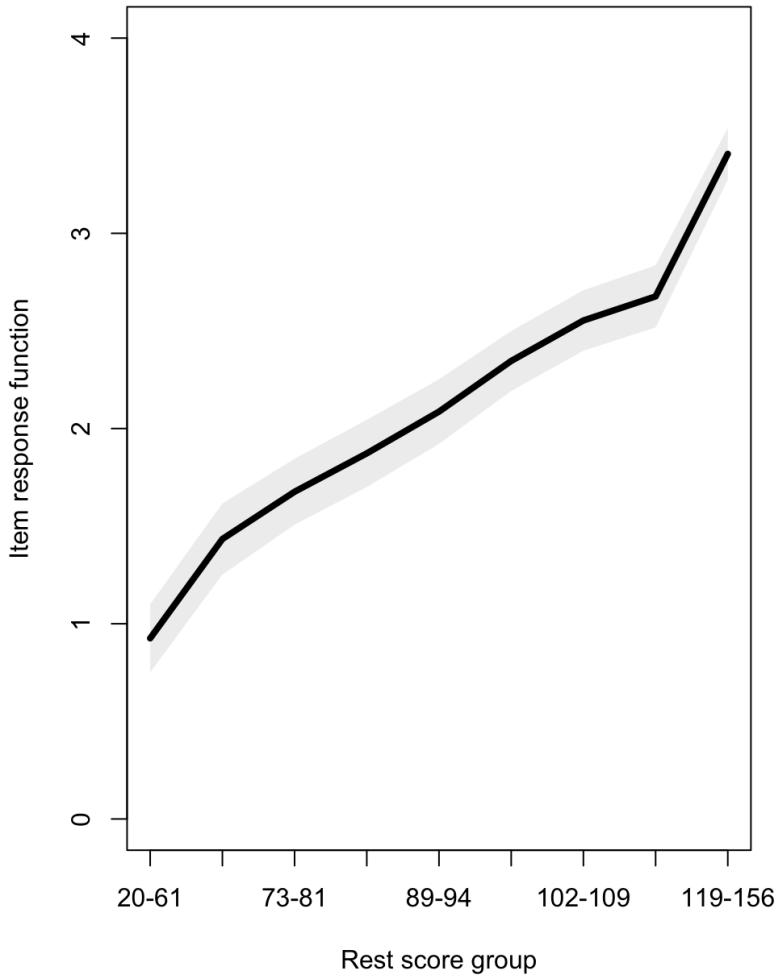
**Q36**

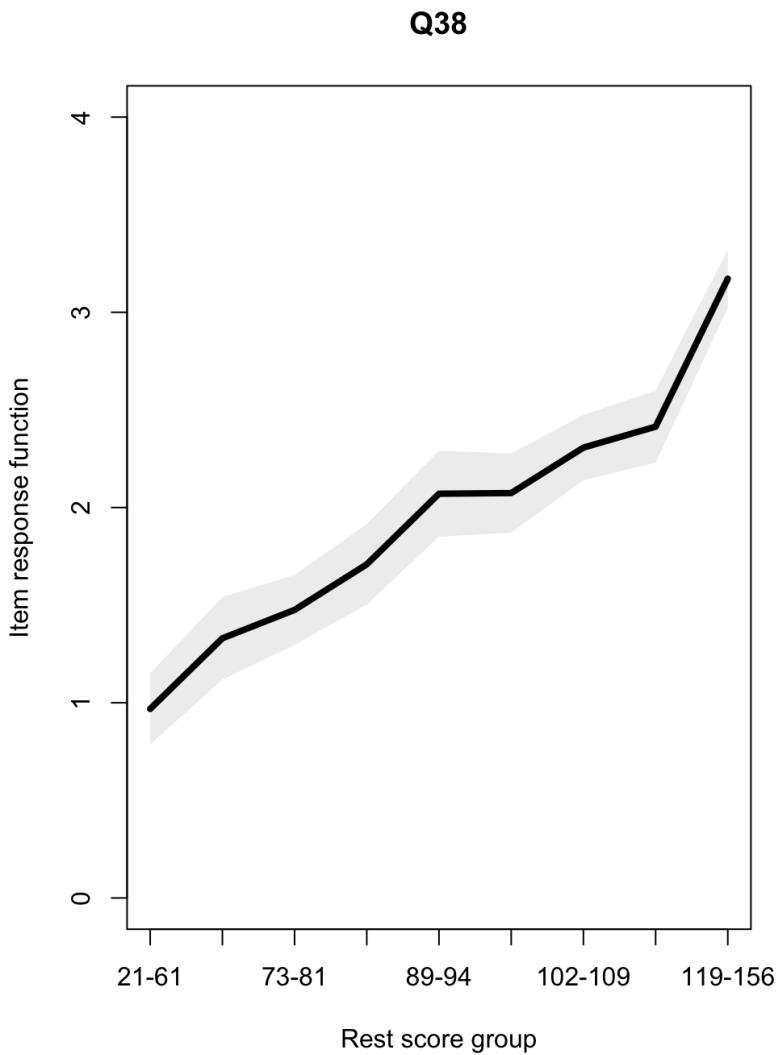
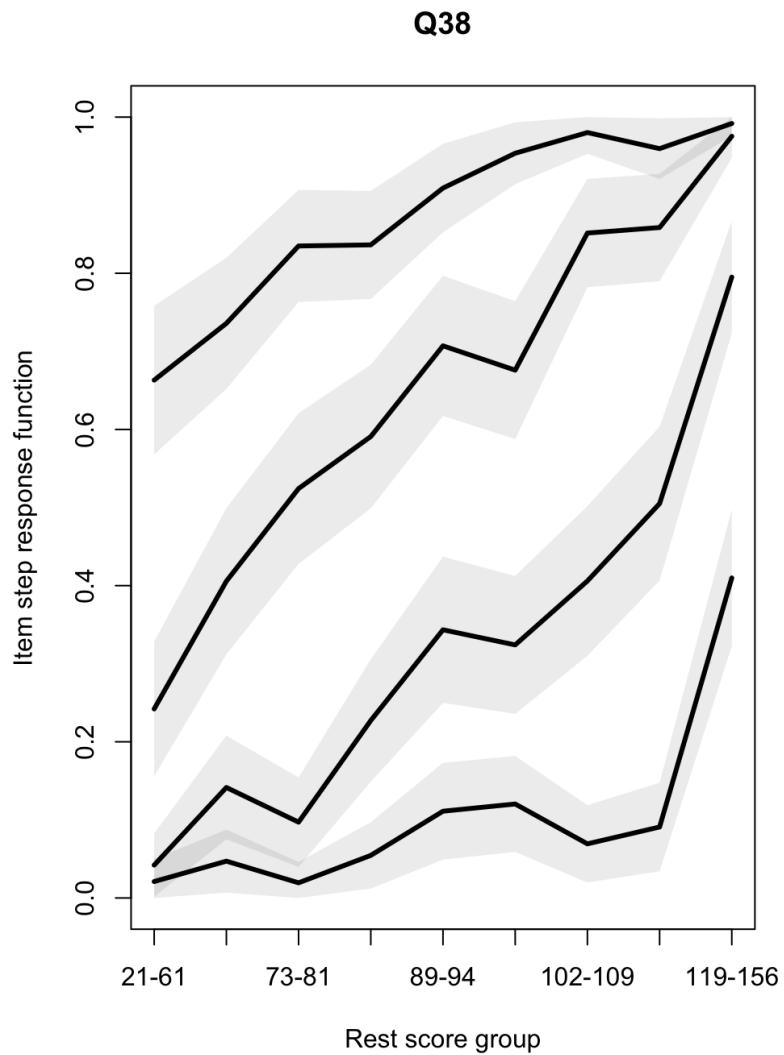


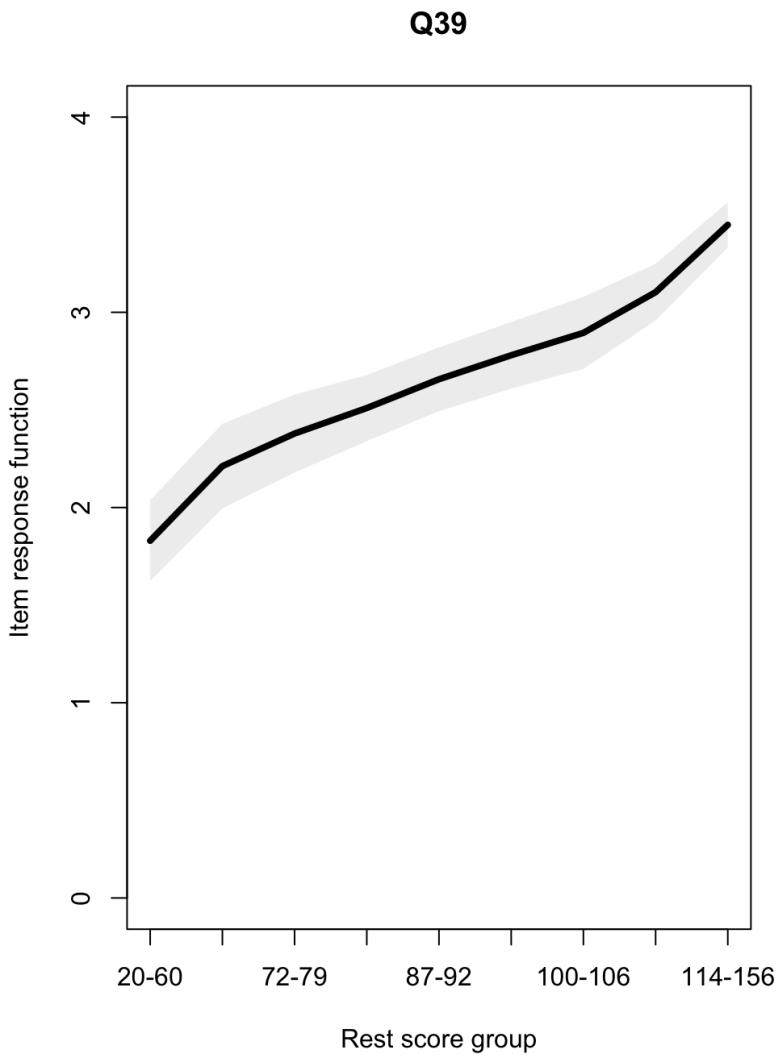
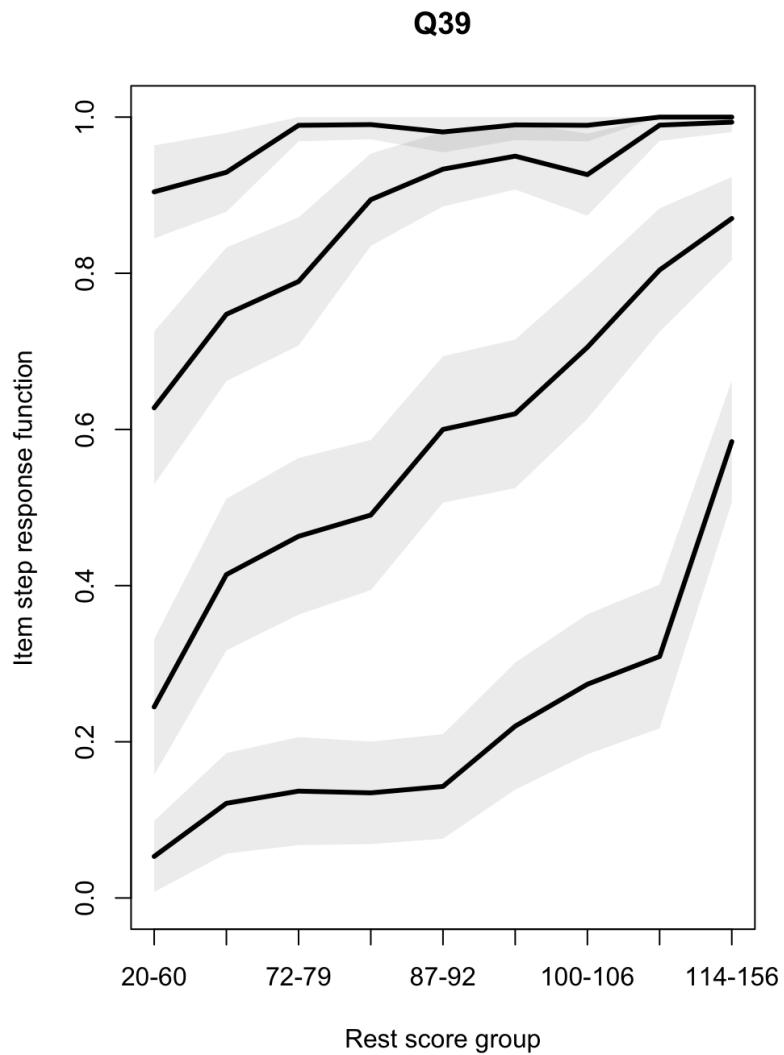
**Q37**

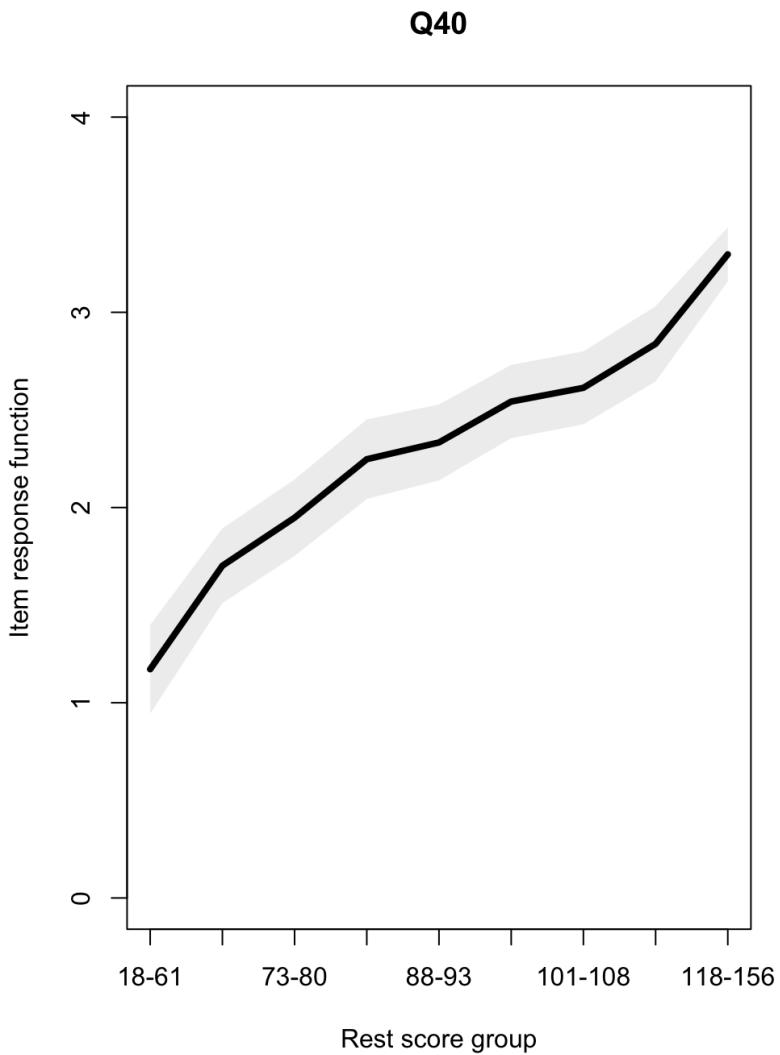
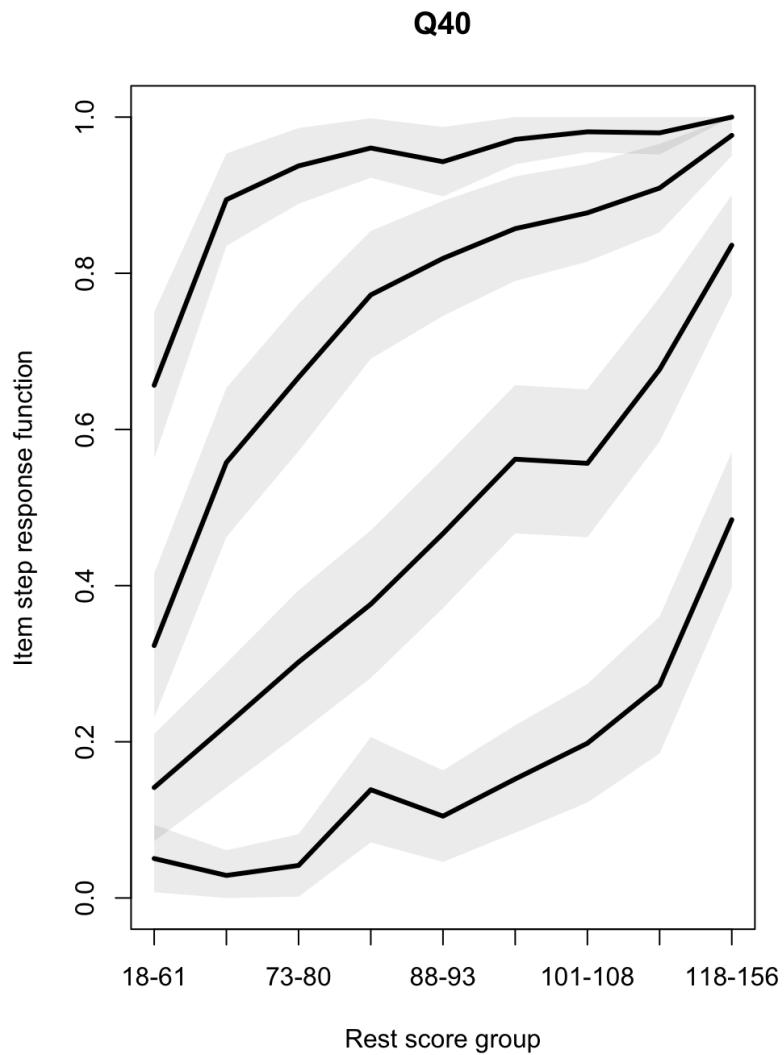


**Q37**

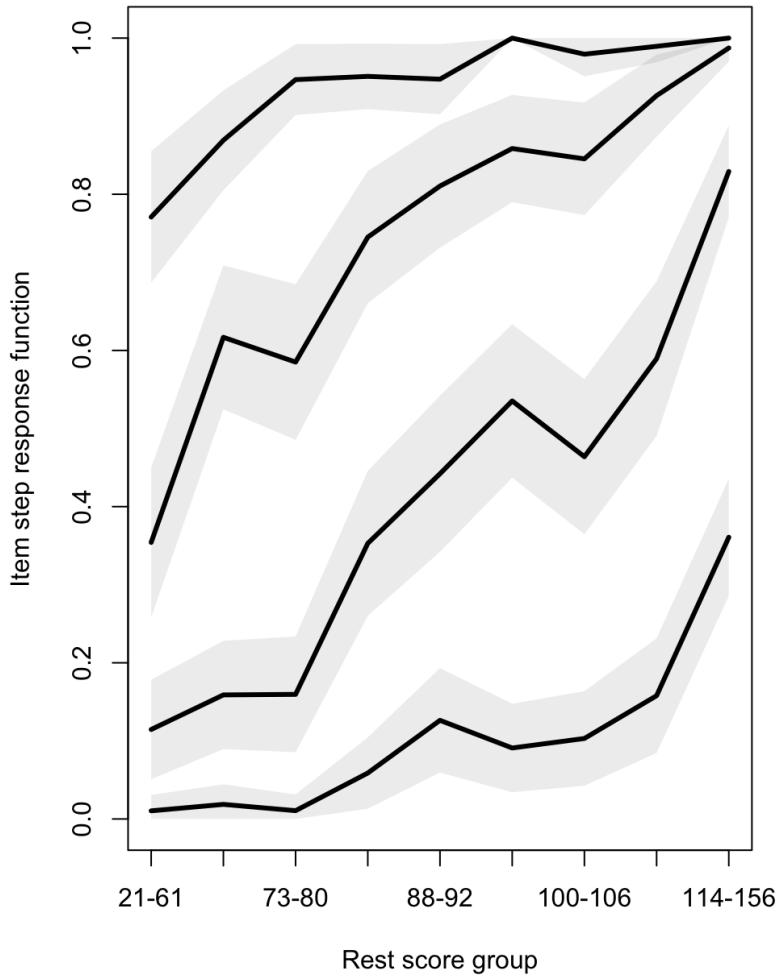








**Q41**



**Q41**

