

MATH60005/70005: Optimisation (Autumn 22-23)

Weeks 6 and 7: Convexity

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Learning Outcome	Check
I can state the definition of a convex set and verify the examples in the notes.	
I understand the concept of a convex combination and its relation to the unit simplex presented in Week 2.	
I understand the notion of convex hull of a set S as the <i>smallest</i> convex set containing S .	
I understand what a convex polytope is.	
I can state the definition of convex function and its different characterizations.	
I can show whether a function is convex or not.	
I understand the links between convexity, minimizers, and maximizers.	

