## Financial Mathematics

MATH 5870/6870<sup>1</sup> Fall 2021

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<sup>&</sup>lt;sup>1</sup>Based on Robert L. McDonald's *Derivatives Markets*. 3rd Ed. Pearson. 2013.

Chapter 13. Market-Making and Delta-Hedging

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- § 13.1 What do market-makers do?
- § 13.2 Market-maker risk
- § 13.3 Delta-Hedging
- § 13.4 The mathematics of Delta-hedging
- § 13.5 The Black-Scholes analysis
- $\S$  13.6 Market-Making as insurance
- § 13.7 Problems

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This section will be skipped for interested students.