### Financial Mathematics

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

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Last updated on August 2, 2021

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

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- § 20.2 Brownian motion
- § 20.3 Geometric Brownian motion
- § 20.4 The Ito formula
- § 20.5 The Sharpe ratio
- § 20.6 Risk-neutral valuation
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