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## APPLICATIONS OF INTEGRATION

7.1 Areas Between Curves

APPLIED PROJECT • The Gini Index

7.2 Volumes

**DISCOVERY PROJECT** • Rotating on a Slant

**7.4** Arc Length

DISCOVERY PROJECT • Arc Length Contest

**7.6** Applications to Physics and Engineering

APPLIED PROJECT • Calculus and Baseball

7.7 Differential Equations

APPLIED PROJECT • How Fast Does a Tank Drain?

APPLIED PROJECT • Which Is Faster, Going Up or Coming Down?