Solutions to David Eisenbud's $Geometry\ of\ Syzygies$

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 ${\tt ABSTRACT.} \ \ {\tt This\ document\ contains\ solutions\ to\ the\ exercises\ of\ David\ Eisenbud's\ \textit{Geometry\ of\ Syzygies}.$

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Free Resolutions and Hilbert Functions

- 1.1.
- **1.2.**
- 1.3.
- 1.4.
- 1.5.
- 1.6.
- 1.7.
- 1.8.
- 1.9.
- 1.10.

First Examples of Free Resolutions

- 2.1.
- 2.2.
- 2.3.
- 2.4.
- 2.5.
- 2.6.
- 2.7.
- 2.8.
- 2.9.
- 2.10.
- 2.11.
- 2.12.
- 2.13.
- 2.14.
- 2.15.

Points in P^2

- 3.1.
- 3.2.
- 3.3.
- 3.4.
- 3.5.
- 3.6.
- 3.7.
- 3.8.
- 3.9.
- 3.10.
- 3.11.
- 3.12. 3.13.
- 3.14.
- 3.15.
- 3.16.
- 3.17.
- 3.18.
- 3.19.
- 3.20.
- 3.21.
- 3.22.
- 3.23.
- 3.24.

Castelnuovo-Mumford Regularity

- 4.1.
- 4.2.
- 4.3.
- 4.4.
- 4.5.
- 4.6.
- 4.7.
- 4.8.
- 4.9.
- 4.10.
- 4.11.
- 4.12.
- 4.13.
- 4.14.
- 4.15.

The Regularity of Projective Curves

5.1.

5.2.

5.3.

5.4.

5.5.

5.6.

5.7.

5.8.

Linear Series and 1-Generic Matrices

- 6.1.
- 6.2.
- 6.3.
- 6.4.
- 6.5.
- 6.6.
- 6.7.
- 6.8.
- 6.9.
- 6.10.
- 6.11.

Linear Complexes and the Linear Syzygy Theorem

7.1.

7.2.

7.3.

7.4.

7.5.

7.6.

7.7.

7.8.

7.9.

7.10.

Curves of High Degree

- 8.1.
- **8.2.**
- 8.3.
- 8.4.
- 8.5.
- 8.6.
- 8.7.
- 8.8.
- 8.9.
- 8.10.
- 8.11.
- 8.12.
- 8.13.
- 8.14.
- 8.15.
- 8.16.
- 8.17.
- 8.18.
- 8.19.
- 8.20.

Clifford Index and Canonical Embedding

- 9.1.
- 9.2.
- 9.3.
- 9.4.
- 9.5.
- 9.6.
- 9.7.
- 9.8.
- 9.9.