

## Final Exam Review Exercises

### Chapter 5

- Unit Circle (5.1.17, 5.1.41)
- Trig Functions of Real Numbers (5.2.29, 5.2.43, 5.2.57)
- Graphs of Trig Functions ( 5.3.21, 5.3.35, 5.3.45)
- More Graphs of Trig Functions (5.4.19, 5.4.47)
- Harmonic Motion (5.5.5, 5.5.13, 5.5.35)

### Chapter 6

- Angular and Linear Speed, Area of a Sector (6.1.13, 6.1.59, 6.1.79)
- Right Triangle Trig (6.2.11, 6.2.23, 6.2.55, 6.2.59)
- Trig Functions of Angles (6.3.49, 6.3.53, 6.3.57)
- Law of Sines (6.4.5, 6.4.19, 6.4.25, 6.4.37)
- Law of Cosines (6.5.11, 6.5.13, 6.5.43)

### Chapter 7

- Identities (7.1.19, 7.1.49, 7.1.75)
- Addition and Subtraction Formulas (7.2.13, 7.2.31, 7.2.41)
- Double-Angle, Half-Angle, Product-sum Formulas (7.3.5, 7.3.19, 7.3.39, 7.4.49, 7.4.61)
- Inverse Trig Functions (7.4.37, 7.4.39, 7.4.47)
- Trigonometric Equations (7.5.17, 7.5.19, 7.5.25, 7.5.55)

### Chapter 8

- Polar Coordinates (8.1.27, 8.1.35, 8.1.43, 8.1. 51)
- Graphs of Polar Equations (8.2.19, 8.2.23, 8.2.29, 8.2.47)
- Complex Numbers (8.3.49, 8.3.57, 8.3.67, 8.3.79, 8.3.89)
- Vectors (8.4.27, 8.4.35, 8.4.43, 8.4.57)

### Chapter 10

- Parabolas (10.1.17, 10.1.39, 10.1.45)
- Ellipses (10.2.9, 10.2.35, 10.2.39)
- Hyperbolas (10.3.13, 10.3.19, 10.3.33)
- Shifted Conics (10.4.15, 10.4.23, 10.4.25)