

Reference Page for Self Test

- The table below shows the major topic(s) related to the questions in the self test.
- If you need help on a particular topic, go to the summary page of that topic on the review homepage (<http://faculty.camosun.ca/raymondlai/home-2/review/>); you can do additional review on some of the topics by reading the corresponding sections in the calculus text *Calculus, Early Transcendentals* by Henry Edwards and David Penney (7th edition and published by Pearson Prentice Hall) – this is the textbook for the two calculus courses Math250A and Math 250B in the engineering bridge programs in 2017.
- The topics in **bold face** are the ones we will review in Math 250A, Math 251, or Stat 254.

| Question on the self test | Topic | Reference in the calculus text (for example, 3.5 means chapter 3 section 5, App A means appendix A) |
|---------------------------|---|---|
| 1 | Linear Equations and Inequalities in 1 variable | App A |
| 2 | Integral Exponents | App M (Laws of Exponents) |
| 3, 4 | Polynomials | App M (Factoring) |
| 5, 6 | Complex Numbers (Reviewed in Math 251) | 3.10 (pages 211 and 212) |
| 7 | Quadratic Equations | App M (Quadratic Formula) |
| 8, 9 | Rational Expressions | N/A |
| 10 | Linear Equations and Inequalities in 2 variables | 1.2 (pages 12 and 13), App B (pages A-6 to A-11) |
| 11, 12 | Exponential and Logarithmic Functions | 3.8 (page 180, 181, 185 – 188), 6.7 (pages 477, 478, 481 – 485) |
| 13, 14 | Plane Geometry | N/A |
| 15 | Right-Triangle Trigonometry | App C (pages A-13 and A-15) |
| 16, 17 | Trigonometric Functions and their Inverses | 1.4 (pages 34 – 36), App C (page A-16), 6.8 (pages 481 – 495, excluding differentiation), |

Reference Page for Self Test

| Question on the self test | Topic | Reference in the calculus text (for example, 3.5 means chapter 3 section 5, App A means appendix A) |
|---------------------------|--|---|
| 18 – 21 | Trigonometric Identities and Trigonometric Equations | App C (pages A-14 and A-17), App M (Formulas from Trigonometry) |
| 22 | Vectors (and Trigonometric Identities) (Reviewed in Math 251) | 11.2 and 11.3 |
| 23 – 25 | Conic Sections | Circle: 1.2 (pages 13, 14), 9.1 (page 660), Parabola: 1.2 (pages 17 – 20), 9.6 (pages 698 – 701), Ellipse: 9.6 (pages 702 – 705), Hyperbola: 9.6 (pages 706 – 710) |
| 26 | Binomial Theorem | App M (Binomial Formula) |
| 27 | Limits | 2.2, 2.3 (pages 76 – 84) |
| 28 | Differentiation | 3.2, 3.3 (pages 130 – 135), 3.4, 3.7 (pages 169 – 174), 3.8 (pages 182 – 185, 189 – 191), 3.9 (pages 194 – 197), 6.7 (pages 483 and 485), 6.8 (page 490, 492 – 495) |
| 29 – 33 | Applications of Differentiation | 3.1, 3.3 (pages 136 and 137), 3.5, 3.6, 3.7 (pages 174 – 176), 3.9 (pages 197 – 199), 4.2, 4.4, 4.5, 4.6, 4.7 |
| 34, 35 | Sequences and Series (Reviewed in Math 250B) | 10.2, 10.3 (pages 732 – 736), 10.4 (pages 743 – 752) |
| 36 | Integration Method (Reviewed in Math 250A) | 5.5 (pages 354 – 359), 5.6 (pages 265 – 368), 5.7 , 6.7 (pages 483 - 484), 6.8 (pages 495 – 496), 7.2, 7.3, 7.4, 7.5, 7.6, |

Reference Page for Self Test

| Question on the self test | Topic | Reference in the calculus text (for example, 3.5 means chapter 3 section 5, App A means appendix A) |
|---------------------------|--|---|
| 37 – 44 | Applications of Integration (Reviewed in Math 250A) | 5.2 (pages 321 – 325), 5.8 , 6.2, 6.3, 6.4 , 6.6 , 8.3, 8.4, 8.6, 8.7 |
| 45 – 47 | Probabilities (Reviewed in Stat 254) | N/A |