

PC 12 Suggested Textbook Practice Questions

Here are suggested questions to complete from each textbook section we work with. They will not be collected nor marked but doing them can help you understand the concepts we are learning.

1.1 Horizontal and Vertical Translations	Page 12: #2, 3cd, 4ac, 5, 8, 11
1.2 Reflections and Stretches	Page 28: #3b, 4b, 5-7, 9, 12
1.3 Combining Transformations	Page 38: #4, 5a, 6, 7abcd, 8, 9ce, 10ab
1.4 Inverses	Page 51: #1b, 2a, 3ac, 5ae, 3b, 12a
3.1 Characteristics of Polynomials	Page 114: #1-3, 4ace, 6, 7, 9
3.2 Remainder Theorem	Page 124: #1-2, 3a, 4c, 5b, 6-8
3.3 Factor Theorem	Page 133: #1-4, 5ace, 7bd, 9, 11
3.4 Equations and Graphs of Polynomial Functions	Page 147: #1-2, 3ac, 4ac, 5, 9ae, 14, 16
4.1 Angles and Angle Measures	Page 175: #1, 3-5(ace), 6, 7ab, 8ac, 9ab
4.2 The Unit Circle	Page 186: #1c, 2ace, 3ac, 4, 5
4.3 Trigonometric Ratios	Page 201: 1-2 (acegik), 3ace, 6ace, 9ace, 10 all, 11 all, 12ac
4.4 Solving Trigonometric Equations	Page 211: #2-4, 5ace, 7 all
5.1 Graphing the Sine and Cosine Functions	Page 233: #6-8, 9ac, 10ab, 11, 14
5.2 More Transformations of Sinusoidal Functions	Page 250: #3-7, 10, 14, 15ac, 16ac
5.4 Trigonometric Equations and Applications	Page 275: #1, 4ac, 8b, 9, 10, 18, 19
6.1 Trigonometric Identities	Page 296: #3, 4, 5a, 6bd, 10, 14-16 (don't need to identify NPVs)
6.2 Sum, Difference and Double-Angle Identities	Page 306: #1ade, 2ac, 4ace, 5, 8ce, 10, 11, 16, 20acd
6.3 Proving Trigonometric Identities	Page 314: #2, 3ac, 5, 7, 10c, 11a, 12a, 15, 18
6.4 Solving Trigonometric Equations Using Identities	Page 320: #1bc, 2bc, 3abc, 4, 5, 10, 14
7.1 Characteristics of Exponential Functions	Page 342: #1, 3-8

7.2 Transformations of Exponential Functions	Page 354: #1, 2, 3adeg, 5, 6cd, 7ac, 11a, 12a
7.3 Solving Exponential Equations	Page 364: #1, 2, 3ac, 4, 5ac, 7aceg, 9-13
8.1 Understanding Logarithms	Page 380: #1-4, 8, 10, 12-15
8.2 Transforming Graphs of Logarithmic Functions	Page 389: #1, 2, 4c, 5c, 6, 7, 8ab, 9b, 13
8.3 Logarithm Laws	Page 400: #1-5, 8-10, 13bc, 16bc
8.4 Logarithmic Equations and Applications	Page 412: #1, 2ac, 3, 4ac, 5, 6, 7acd, 8abd, 13, 15, 16, 17
9.1 Rational Functions	Page 442: #2ac, 3cd, 4ac, 5ac, 6, 7bd, 8, 9, 12, 16
9.2 Analyzing Rational Functions	Page 452: #4-7, 8ac, 11, 14
9.3 Connecting Graphs and Rational Equations	Page 465: #1, 2, 3-6(ac), 9, 11
Sections G.1-G.4 are not in the textbook	