|  |  |  |
| --- | --- | --- |
| Section | Page # | Exercises |
| 1.1 Factoring | 5 - 14 | 1, 2ac, 3a, 4a, 5abcd, 6acegi, 7aceg, 8ace, 11acekm, 12ac, 13a, 14a |
| 1.2 Factoring | 15 - 23 | 1ac, 2acgik, 3aceg, 4abef, 5a, 6abef, 7aceg, 8ac |
| 1.4 Simplifying Radicals | 30 - 37 | 1acegi, 2ae, 3aceg, 4abcgi, 5abei, 6g, 7abc |
| 1.5 Adding and Subtracting Radicals | 38 - 44 | 2, 4a, 5acegikmo, 6ab, 7abe, 8ad |
| 1.6 Multiplying and Dividing Radicals | 45 - 56 | 2acg, 3ahi, 4acde, 5ab, 7, 9abcdefgh, 10 |
| ­1.7 Radical Equations | 57 - 62 | ­­1ab, 2abc, 3abdefg, 4, 6 |
| 1.8 Chapter 1 Review | 63 - 68 | 1, 2, 3, 4, 7, 8, 9, 10, 11, 12 |
|  |  |  |
|  |  |  |
| 2.1 Properties of Rational Expressions | 69 - 75 | 2a, 3abcdeh, 4abce, 5acegikqsuw, 8 |
| 2.2 Multiplying and Dividing RE | 76 - 82 | 2abdeikmos, 3abcghimqrs |
| 2.3 Adding and Subtracting RE | 83 - 90 | 3abfi, 4acegikmo |
| 2.4 Mixed Operations | 91 - 97 | 1acegi, 2acgi, 4 |
| 2.5 Rational Equations | 98 - 105 | 1, 3af, 4ae, 5aeimqs, 6abfgj |
| 2.7 Applications of Rational Equations | 115 - 122 | 1acdh, 2abcde, 3abc |
| 2.8 Chapter 2 Review | 123 - 128 | 1, 2, 3, 4, 5, 6, 7, 10, 11, 12, 13, 14, 15 |
|  |  |  |
|  |  |  |
| 3.1 Graphing Parabolas | 129 - 132 | 1, 2bc, 3ab, 4b, 5a, 6ab |
| 3.2 Graphing Parabolas | 133 - 138 | 1, 2acdef, 3, 4 |
| 3.3 Graphing Parabolas | 139 - 143 | 1ab, 3abc, 4, 5, 7 |
| 3.4 Graphing Parabolas | 144 - 150 | 2, 3abcd, 4abceh, 5a, 7abc, 8a, 9ad, 10 |
| 3.5 Finding the Equation of a Parabola | 151 - 156 | 1abcf, 2aeg, 3acd, 5, 6, 9 |
| 4.1 Polynomial Functions | 159 - 167 | 3abcde, 4abcdfgijk, 6acdfh, |
| 4.2 Vertex of a Parabola | 168 - 174 | 1, 3abcdfi, 4abd, 5abcf, 8 |
| 4.3 Applications of Quadratic Functions | 175 - 182 | 1, 2, 5ab, 6, 8, 9, 11, 12, 13, 14, 15 |
| 3.6 Chapter 3 Review  4.4 Chapter 4 Review | 157 - 158  183 - 184 | 1, 2. 3, 4, 5, 6  1, 2, 3, 4, 6, 7, 8, 9 |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| 5.1 Solving Quadratic Equations by Factoring | 185 - 192 | 1, 3acd, 4, 5a, 6aceg, 7acegikm, 8abdi, 9ace |
| 5.2 Solving Quadratic Equations by the Square Root Principle | 193 - 198 | 1, 2abcdefk, 5a, 6aci, 7ac |
| 5.3 Solving Quadratic Equations by the Quadratic Formula | 199 - 206 | 1ab, 2a, 3adefhj, 4aceg, 5ad, 6ab, 7a |
| 5.4 Graphing Calculator and the Discriminant | 207 - 212 | 1acde, 2aceg, 3ab, 4abc, 5abc |
| 5.5 Applications of Quadratic Equations | 213 - 218 | 1, 2, 3, 4, 5, 7, 8, 11, 14 |
| 5.6 Chapter 5 Review | 219 - 222 | 1, 2, 3, 5, 6, 8, 9, 10, 11, 12, 13 |
|  |  |  |
|  |  |  |
| 6.1 Linear Systems | 223 - 228 | 1abd, 2abe, 3acd |
| 6.2 Graphing Non-Linear Systems of Equations | 229 - 232 | 1ab, 2a, 3adfg |
| 6.3 Solving Linear-Quadratic Systems | 233 - 239 | 1aeimq, 2, 4 |
| 6.4 Solving Quadratic-Quadratic Systems | 240 - 245 | 2aeim, 3a |
| 7.1 Linear Inequalities in One Variable | 249 - 256 | 2, 3acegi, 4, 5, 6ace, 7aceg |
| 7.2 Linear Inequalities in Two Variables | 257 - 264 | 2acdf, 3aceg, 5aceg, 6a |
| 7.3 Solving Quadratic Inequalities | 265 - 271 | 1, 2, 3abcefgi |
| 7.5 Applications of Inequalities | 277 - 281 | 1, 3, 6, 8, 11, 12, 14 |
| 6.5 Chapter 6 Review  7.6 Chapter 7 Review | 246 – 248  282 - 284 | 1a, 2a, 3a, 4, 5, 6, 8  1, 2, 3, 4, 5, 7, 8, 9, 10, 11 |
|  |  |  |
| 8.1 Angles and Their Measure | 285 - 294 | 1abcde, 2abcde, 3adgm, 6a, 7a, 8aceg, 9abcde, 10a |
| 8.2 The Three Trigonometric Functions | 295 - 305 | 1ae, 2abcd, 3ace, 4a, 5abceg, 6ace |
| 8.3 Special Angles | 306 - 315 | 1abcd, 2abcd, 3acegikmo, 4abcfghj, 5ace |
| 8.5 The Law of Sines | 324 - 332 | 1, 3, 6abcdef |
| 8.6 The Law of Cosines | 333 - 340 | 2, 6, 7abcdef, 8abcdef |
| 8.7 Chapter 8 Review | 341 - 344 | 1, 2, 3, 4, 6, 7, 9 |
|  |  |  |
| 9.1 Investments and Loans | 345 - 351 | 1, 2, 3a, 4, 5, 7, 10, 12 |
| 9.2 Effective Interest Rates and Annuities | 352 - 358 | 1af, 2a, 3, 4, 6 |
| 9.3 Stocks and Bonds | 359 - 367 | 1, 2, 3, 8, 10, 13 |
| 9.4 Installment Loans | 368 - 373 | 1, 3, 5, 7a, 8a, 9, 11 |
| 9.5 Canadian Mortgages | 374 - 379 | 1a, 2, 4, 6 |
| 9.6 Chapter 9 Review | 380 - 382 | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 |