|  |  |  |
| --- | --- | --- |
| Section | Page # | Exercises |
| 1.1 Number Systems | 5 – 8 | 1, 2, 5, 6 |
| 1.2 Greatest Common Factor and Least Common Multiple | 9 – 21 | 2, 5a, 6ab, 7a, 8hi, 9acg, 10aeg, 12, 15 |
| 1.3 Squares and Square Roots | 22 – 28 | 1abcdj, 2acde, 3acei, 4abcd, 5, 6, 7, 9, 10 |
| 1.4 Rational and Irrational Numbers | 29 – 34 | 1aceg, 3afgi, 4abc, 6ace, 7abcefi, 8ac |
| 1.5 Exponential Notation | 35 – 49 | 1ace, 2ace, 3ace, 4ace, 5abcdefghij, 6ace, 7abcdefghijkl, 8aceg, 11 |
| 1.6 Irrational Numbers | 50 – 57 | 1acg, 2ac, 3acegi, 4aceg, 5a, 6a, 7a, 8ac, 9ac, 10ac, 11, 14 |
| 1.7 Chapter 1 Review | 58 – 62 | 1, 2, 3, 4, 5, 8, 9abcdefgh, 10abcdef, 11abcd |
|  |  |  |
|  |  |  |
| 2.1 Classifying Polynomials | 63 – 70 | 1, 2abcd, 3, 4abcdef, 5abcdef, 6abcd, 7acg, 8abde, 9a |
| 2.2 Multiplying Polynomials | 71 – 79 | 1acegikmo, 2acegi, 3acegi, 4a, 6a, 7a |
| 2.3 Removing Common Factors | 80 – 85 | 1acegi, 2acegi, 3acegi, 4acegi, 5acegi, 6acegi, 7, 12 |
| 2.4 Factoring $x^{2}+bx+c$ | 86 – 94 | 1, 2, 3a, 4a, 5, 6abgh, 7acegik, 8acegik, 9acegi, 12 |
| 2.5 Factoring $ax^{2}+bx+c$ | 95 – 100 | 1ae, 2, 3, 5ac, 7, 10 |
| 2.6 Special Factors | 101 – 106 | 1, 2, 3, 4acegi, 5abcdefghijkl, 6, 7, 8bde |
| 2.7 Chapter 2 Review | 107 – 112 | 1, 2, 3, 4, 5, 6, 7, 8 |
|  |  |  |
|  |  |  |
| 3.1 Relations | 113 – 120 | 1, 2, 3, 7ac, 8ac, 9ac, 10acegikmo |
| 3.2 Functions | 121 – 129 | 1, 3, 4, 5, 6, 7, 8, 10, 12, 14 |
| 3.3 Linear Equations | 130 – 137 | 1, 2, 3ace, 4abcdghkl, 7, 9 |
| 3.4 Non-Linear Equations | 138 – 144 | 1acfgkmp |
| 3.5 Graphing with a Calculator | 145 – 147 | 1 |
| 3.6 Chapter 3 Review | 148 – 152 | 1, 2, 3, 4, 5, 6, 7, 8a, 10b |
|  |  |  |
| 4.1 Slope | 153 – 159 | 1, 2, 3, 4, 5acegi, 10 |
| 4.2 Rate of Change | 160 – 168 | 2, 3, 4, 5, 6, 15 |
| 4.3 Graphing Linear Functions | 169 – 178 | 1abcdikmo, 2abcdgh, 3, 4bdfhkl, 5bdkl, 6a, 13 |
| 4.4 Parallel and Perpendicular Lines | 179 – 183 | 1abcdef, 3abcd, 6, 10 |
| 4.5 Applications of Linear Relations | 184 – 187 | 1, 2, 5, 6, 9, 10 |
| 4.6 Chapter 4 Review | 188 – 190 | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 |
|  |  |  |
| 5.1 Different Forms of Linear Equations | 191 – 198 | 1, 2abc, 3abc, 4ace, 5ace, 6ace, 7, 8, 9ace, 10aceg, 11ace |
| 5.2 Special Cases of Linear Equations | 199 – 206 | 1, 3, 4ac, 5ac, 6aceg, 7ace, 8, 13 |
| 5.3 Equations of Parallel and Perpendicular Lines | 207 – 212 | 1acegi, 2acegi, 3acegi, 4a, 5a, 6, 10 |
| 5.4 Linear Applications and Modelling | 213 – 217 | 1, 2, 4, 6, 7, 10, 12, 13, 15 |
| 5.5 Function Notation | 218 – 227 | 1, 2abcd, 3abcd, 4, 7a, 8c, 9a, 11abcd, 12abcd, 16, 17 |
| 5.6 Chapter 5 Review | 228 – 232 | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18abcdef, 19a |
|  |  |  |
|  |  |  |
| 6.1 Solving Linear Systems by Graphing | 233 – 239 | 1, 2, 4a, 5, 6abcdef, 10 |
| 6.2 Solving Linear Systems by Elimination | 240 – 245 | 1ace, 2acegikmqs |
| 6.3 Solving Linear Systems by Substitution | 246 – 250 | 1acegikmo, 2a, 3a, 4a, 5a |
| 6.4 Problem Solving with Two Variables | 251 – 256 | 1abcdef, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16 |
| 6.5 Arithmetic Sequences | 257 – 264 | 7ace, 8ace, 9ace, 10ace, 11ace, 14, 15, 16 |
| 6.6 Arithmetic Series | 265 – 271 | 1acegik, 2acegi, 3ace, 4a, 5,9, 10, 11, 12 |
| 6.7 Chapter 6 Review | 272 – 276 | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 |
|  |  |  |
|  |  |  |
| 7.1 Simple and Compound Interest | 277 – 283 | 1, 2, 3a, 4, 5, 7, 10 |
| 7.2 Gross and Net Pay | 284 – 288 | 1, 2, 3a, 4, 5, 6, 8a |
| 7.3 Tax Rates | 289 – 293 | 1ad, 2ad, 3ad |
| 7.4 Net Income | 294 – 298 | 1, 2a, 5, 8, 11 |
| 7.5 Chapter 7 Review | 299 – 302 | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 |
|  |  |  |
|  |  |  |
| 8.1 Sine, Cosine, and Tangent for Right Triangles | 303 – 308 | 1acegikmoq, 2acegikm, 3, 4abd |
| 8.2 Relationships Between Sine, Cosine, and Tangent | 309 – 317 | 2acdefi, 3a |
| 8.3 Special Angles | 318 – 322 | 1egq, 2egkm, 3dgjm, 4acegikmo |
| 8.4 Applications of Trigonometry | 323 – 327 | 1, 3, 5, 7, 9, 11, 13, 15 |
| 8.5 Compound Trigonometry Applications | 328 – 331 | 1, 2, 3, 4, 5, 6, 10, 11 |
| 8.6 Chapter 8 Review | 332 – 335 | 1, 2, 4, 6, 7a, 8, 9, 10, 13 |
|  |  |  |
|  |  |  |