

Homework Problems, Math 201, S 2012

| Section | Problems |
|---------------------------------------|--|
| P.1 Real numbers | 6, 7, 8, 12, 14, 18, 33, 34, 47, 48 |
| P.2 Coordinates | 6, 8, 12, 16, 22, 24, 25, 26, 34, 42, 50, 51, 52 |
| P.3 Linear equations and inequalities | 1, 5-10, 14, 20, 22, 29, 42, 50 |
| P.4 Lines in the plane | 4, 12, 14, 22, 24, 42, 44, 49 |
| P.5 Solving equations | 12, 14, 20, 40, 42, 47, 54, 60 |
| P.7 Solving inequalities | 2, 4, 8, 10, 16, 17, 24, 34 |
| 1.1 Modeling | 1-10, 14, 20, 22, 29, 42, 57-60 |
| 1.2 Functions | 2, 4, 6, 8, 10, 11, 14, 15, 30, 33, 42, 46, 57, 58, 60, 67, 68 |
| 1.3 Basic functions | 1-12, 13, 19, 23, 48, 50, 51, 53 |
| 1.4 Building functions | 2, 5, 9, 10, 12, 13, 16, 19, 31, 36, 38, 46 |
| 1.5 Parametric relations | 1, 2, 6, 14, 15, 20, 23, 27 |
| 1.6 Transformations | 2, 4, 8, 13, 17, 24, 25-28, 46, 52, 54, 67 |
| 1.7 Modeling | 2, 7, 9, 16, 23, 28, 43-46 |
| 2.1 Linear and quadratic fcns | 8, 10, 12, 24, 30, 36, 40, 41, 51 |
| 2.2 Power functions | 1-10, 18, 20, 28-32, 46-48, 49, 54 |
| P.6 Complex numbers | 3, 5, 6, 7, 10, 13, 18, 23, 26, 30, 33, 36, 41 |
| 2.3 Polynomial functions | 4, 6, 8, 9-12, 20, 26, 29, 36, 40, 44, 46, 55, 63, 66, 71 |
| 2.5 Fundamental theorem of algebra | 3, 6, 8, 10, 14, 17-20, 22, 24 |
| 2.6 Rational functions | 5, 6, 11-14, 20, 24, 28, 30, 40, 46, 48 |
| 2.7 Solving equations | 4, 14, 18, 32, 34, 37, 42, 44 |
| 2.8 Solving inequalities | 4, 8, 10, 14, 30, 35, 38, 45, 46, 49, 61 |
| Review problems for Exam 2 | TBA |
| 3.1 Exponential and logistic fcns | 8, 10, 12, 14, 16, 19, 31-34, 46, 48, 52, 54 |
| 3.2 Exponential and logistic modeling | 2, 4, 6, 8, 11, 12, 20, 24, 28, 30, 33, 44 |
| 3.3 Logarithmic functions | 2, 4, 6, 8, 14, 18, 34, 36, 37-40, 54, 56, 60, 62 |
| 3.4 Properties of logs | 2, 4, 6, 8, 14, 16, 18, 23, 24, 30, 34, 39, 43-46, 49, 53 |
| 3.5 Equation solving | 2, 8, 9, 12, 16, 18, 30, 32, 37, 39, 40, 46, 48 |
| 3.6 Mathematics of finance | 2, 6, 8, 10, 22, 25, 29, 35-40, 42, 43, 46 |
| 4.1 Angles and their measure | 2, 6, 8, 9, 11, 12, 14, 16, 18, 23, 24, 25, 29, 32, 43, 47 |
| 4.2 Trig functions of acute angles | 4, 6, 10, 14, 19, 20, 22, 29, 34, 37, 38, 42, 46, 50, 61, 65, 73 |
| 4.3 Circular functions | 2, 4, 13-16, 18, 20, 21, 22, 26, 36, 38, 42, 43, 44, 49, 76 |
| 4.4 Sinusoidal functions | 1, 14, 23, 26, 29, 32, 42, 50, 61, 72, 89, 95 |
| 4.5 More trig functions | 2, 3, 5, 8, 22, 28, 29, 31, 45 |
| Review problems for Exam 3 | TBA |
| 4.7 Inverse trig functions | 1, 4, 6, 9, 14, 16, 18, 26, 29, 43, 44, 48, 53 |
| 4.8 Solving problems with trig | 3, 12, 14, 16, 23, 29, 32, 33 |
| 5.1 Fundamental identities | 2, 4, 12, 14, 16, 17, 24, 26, 37, 42, 49, 51, 56, 59 |
| 5.3 Sum/difference identities | 3, 4, 23, 31-34 |