

Practice Problem sets for MA101 course

Note that practice problems are **not** homework assignment problems. They are for your practice only and will not be graded.

Sec No.	Topic	Practice Problems
P	Calculator arithmetic	S8-S16, 1b, c, d, e, handout
P	Scientific notation, unit conversions	handout
	Factoring, quadratic formula	2 handouts
1.1	Functions by formula, inverses	E1 - E6, S1- S5, 2,3,5, handout
1.2	Functions by tables	S1-S8, S10-S12, 1, 3, 7
1.3	Functions by graphs	S1-S6, 1, 5, 7, 13
1.4	Functions by words	4, 5, 23, 24, handout
2.1	Tables and trends	S7, S9, 3, 4
2.2	Graphs	5
2.3	Linear eq.	E1, E3, 3, 7, 13, 15
2.4	Nonlinear eq.	E1, E2, E3, 1, 5, 7
2.5	Optimization	S1, S3, 1
3.1	Lines	S1-S7, 2-8
3.2	Linear functions	E1-E4, S1-S13 odd, 1, 7, 11
3.3	Modeling using linear functions	S1-S6, 1, 7, 9 handout
3.4	Lin. regression	1, 3, 5, 7, 15, handout
	Mixture	handout
3.5	Systems of Linear eq.	1, 3, 5, 17
	Matrices	handout
4.1	Exponential growth and decay	E1-E6, S1-S12 odd, 1-15 odd
4.2	Modeling	S1, S3, S5, S8, 1-4, 9-11
4.3	Exponential Regression	S3, S5, 3, 5, 7, 9
4.4	Logarithmic function	E1, E6, E7, S6, S9, S11, 5, 9, 11
10.1	Exponential growth	S7-S9, 1, 2
10.2	Logistic growth	handout
	Domains	handout
5.1	Power functions	S3, S7, S9, 7, 11
5.2	Modeling with power functions	S2--S7,1, 3
5.3	Combining funct., piecewise functions	S1, S2, 12-16, handout

Sec No.	Topic	Practice Problems
5.4	Quadratic funct. and parabolas	S2, S3, S9, S11, 1, 9, 11, 13
5.5	High-degree polynomials, regressions	E1-E3, S1, S5-S12, 3, 11, handout
9.1	Velocity	S5, S7, S9, 3, 9
	Hardy-Weinberg	handout
6.1	Right triangles	S3, S5, 19
6.2	Angle measure, similar triangles	S1, S3, 17, 18
6.3	Right triangle trig functions	S1, S3, S9, S11, 1, 7, 11
7.1	Trigonometric Functions	S1, S2, S9, 3, 7 and handout
7.2	Modeling	1, 3, 4 and handout
7.3	Sine Regressions	S11, S13, 5, 7, 11, 13