

**MAT 099 –Algebra Essentials Exercises from Textbook**  
**(Updated 5/19/17)**

Course Textbook, *Intermediate Algebra* from OpenStax, ISBN 0998625728 is free and open online.

<b>Chapter 1 Foundations</b>		
<b>Sections</b>	<b>Pages</b>	<b>Exercises</b>
1.1	21 - 22	1 – 53 EOO (Every Other Odd Problem) and 55 – 58 ALL
1.2	37 - 39	59 – 137 EOO and 139 – 142 ALL
1.3	52 - 54	143 – 233 EOO and 235 – 238 ALL
1.4	69 - 70	239 – 307 EOO and 309 – 312 ALL
1.5	81 - 82	313 – 380 EOO and 381 – 384 ALL

  

<b>Chapter 2 Solving Linear Equations</b>		
<b>Sections</b>	<b>Pages</b>	<b>Exercises</b>
2.1	111- 113	1 – 73 EOO and 75 – 80 ALL
2.2	128 - 131	81 – 102 EOO, 117 – 159 EOO and 161 – 164 ALL
2.3	144 - 147	165 – 230 EOO and 235, 236
2.4	OMIT	OMIT
2.5	183 - 186	296 – 345 EOO and 369, 371, 373
2.6	195 - 197	376 – 426 EOO and 430 – 433 ALL
2.7	OMIT	OMIT

  

<b>Chapter 3 Graphs and Functions</b>		
<b>Sections</b>	<b>Pages</b>	<b>Exercises</b>
3.1	250 - 253	1 – 71 ODD
3.2	274 - 278	73 – 154 EOO
3.3	291 - 294	155 – 236 EOO
3.4	310 - 312	237 – 275 and 277 – 282 ALL
3.5	325 - 328	283 – 335 EOO
3.6	343 - 346	337 – 390 EOO

  

<b>Chapter 4 Systems of Linear Equations</b>		
<b>Sections</b>	<b>Pages</b>	<b>Exercises</b>
4.1	OMIT	OMIT
4.2	OMIT	OMIT
4.3	OMIT	OMIT
4.4	OMIT	OMIT
4.5	OMIT	OMIT
4.6	OMIT	OMIT
4.7	OMIT	OMIT

  

<b>Chapter 5 Polynomials and Polynomial Functions</b>		
<b>Sections</b>	<b>Pages</b>	<b>Exercises</b>
5.1	497 - 499	1 – 7 (polynomials in one variable only) ODD and 9 – 79 EOO
5.2	520 - 523	81 – 173 EOO and 174 – 177 ALL
5.3	536 - 539	179 – 283 EOO and 284 – 287 ALL
5.4	551 - 552	289 – 315 ODD and 338, 339

<b>Chapter 6</b>	<b>Factoring</b>		
	<b>Sections</b>	<b>Pages</b>	<b>Exercises</b>
6.1	572		1 – 35 ODD
6.2	OMIT		OMIT
6.3	OMIT		OMIT
6.4	OMIT		OMIT
6.5	OMIT		OMIT
<b>Chapter 7</b>	<b>Rational Expressions and Functions</b>		
	<b>Sections</b>	<b>Pages</b>	<b>Exercises</b>
7.1	651		1a, 1b, 2a, 2b, 3a, 3b, 4a, 4b, 5 – 10 ALL, graph $y = \frac{1}{x}$ and state the domain
7.2	OMIT		OMIT
7.3	OMIT		OMIT
7.4	OMIT		OMIT
7.5	OMIT		OMIT
7.6	OMIT		OMIT
<b>Chapter 8</b>	<b>Roots and Radicals</b>		
	<b>Sections</b>	<b>Pages</b>	<b>Exercises</b>
8.1	755		1 – 17 ODD and 23, 25 and 51 – 54 ALL
8.2	OMIT		OMIT
8.3	786		129 – 139 ODD, 145 – 149 ODD
8.4	OMIT		OMIT
8.5	OMIT		OMIT
8.6	825		343 – 348 ALL
8.7	832 - 833		351 – 357 ODD, graph $y = \sqrt{x}$ , and state the domain
8.8	OMIT		OMIT
<b>Chapter 9</b>	<b>Quadratic Equations and Functions</b>		
	<b>Sections</b>	<b>Pages</b>	<b>Exercises</b>
9.1	OMIT		OMIT
9.2	OMIT		OMIT
9.3	OMIT		OMIT
9.4	OMIT		OMIT
9.5	OMIT		OMIT
9.6	944		229 – 232 ALL, graph $y = x^2$ , and state the domain
9.7	OMIT		OMIT
9.8	OMIT		OMIT

**Chapter 10 Exponential and Logarithmic Functions**

Sections	Pages	Exercises
10.1	OMIT	OMIT
10.2	1018	65 – 76 ODD, graph $y = a^x$ , $y = \left(\frac{1}{a}\right)^x$ , $y = e^x$ and state the domains
10.3	1035	208 - 211
10.4	OMIT	OMIT
10.5	OMIT	OMIT

**Chapter 11 Conics**

Sections	Pages	Exercises
11.1	OMIT	OMIT
11.2	OMIT	OMIT
11.3	OMIT	OMIT
11.4	OMIT	OMIT
11.5	OMIT	OMIT

**Chapter 12 Sequences, Series and Binomial Theorem**

Sections	Pages	Exercises
12.1	OMIT	OMIT
12.2	OMIT	OMIT
12.3	OMIT	OMIT
12.4	OMIT	OMIT