

Precalculus Homework I

Functions

- Sec. 1.1 pp.6+ # 2, 3, 9, 11 – 15, 19, 21
Sec. 2.1 pp.71+ # 1, 3, 5 – 7, 17, 18, 25 – 27, 35
& Skill Refreshers

Average Rates of Change

- Sec. 1.2 pp.15+ # 1, 3, 5 – 9, 16, 17, 19, 23

Domain, Range, Piecewise Functions

- Sec. 2.2 pp.77+ # 1 – 19odd, 30 – 33, (23 & 24)
& Skill Refreshers
Sec. 2.3 pp.83+ # 1 – 7odd, 11 – 13, 20, 21

Concavity

- Sec. 2.5 pp.95+ # 3 – 5, 7 - 9, 11, 13, 15, 18, 21,
23bd, 24

Algebra of Functions and Inverses

- Sec. 10.1 pp.275+ # 1, 2, 7 – 27odd, 24, 34 – 37,
49a, 50a, 53a, 54ab
10.2 pp.286+ # 1 – 11odd, 15 – 19odd, 20,
33, 43, 45, 48, 49, 57
10.3 pp.294+ # 1, 5, 9, 17, 19, 21, 27, 29d,
31, 41

Exponential Functions

- Sec. 4.1 pp.136+ # 3, 5, 7, 11 – 17odd, 18, 21,
23, 25 & Skill Refreshers

Linear vs Exponential Functions

- Sec. 4.2 pp.145+ # 1, 3, 5, 9, 11, 13, 15, 21, 23,
25, 33, 34, 37 & Skill Refreshers

Exponential Graphs

- Sec. 4.3 pp.152+ # 1 - 3, 5, 7, 9, 11 – 15, 17,
20 – 23, 25 – 30, 33, 34, 43

Recommended for Review for Test I

End of Chapter Review Exercises and Check Your Understanding Questions

- Chap. 1: p.50 # 6 – 8, 38, 39c, 45, 51
p.59 # 1 – 18
Chap. 2: p.97 # 1 – 8, 11 – 14, 16, 18, 21, 47, 49, 51,
53, 63, 67
p.101 # 1 – 25, 37 - 42
Chap. 4: p.168 # 8, 11 – 14, 17 – 19, 21, 23, 27, 29, 33,
35, 37, 39, 45, 47
Chap. 10 p.298 # 1 – 15odd, 37, 40, 53 – 61, 67, 80, 89c
p.303 # 1 – 37

Precalculus Homework II

Continuous Growth, Interest

- Sec. 4.4 pp.158+ # 1, 5, 7, 19
Sec. 4.5 pp.163+ # 1, 3, 5, 9, 11, 13, 21, 23, 33,
41, 47, 49, (52 & 53)
& Skill Refreshers(S1 – S11)

Logarithms, Properties, Equations

- Sec. 5.1 pp. 185+ # 1 – 17odd, 20, 23, 25, 29,
31 – 33, 35 – 43odd, 42, 47,
49, 50, 52 & Skill Refreshers

Applications, Logarithmic Graphs

- Sec. 5.2 pp. 194+ #1, 3, 11, 19, 21, 25, 35, 45, 53, 49
(42 & 57) & Skill Refreshers
Sec. 5.3 pp. 203+ #1 – 23odd, 2, 12, 20, 34, 35, 37,
39, 40 & Skill Refreshers

Polynomials

- Sec. 11.2 pp.319+ # 1 – 13, 15, 22, 23, 28, 29, 31
Sec. 11.3 pp.326+ # 1 – 5, 9, 10, 13, 17, 19, 20, 24,
25 – 31odd, 30, 33, 34, 38, 44 - 47

Rational Functions

- Sec. 11.4 pp.332+ # 8 – 19, 21, 30
Sec. 11.5 pp.339+ # 1 – 3, 5, 6, 9 – 15, 17 – 19, 21,
23, 26, 35 - 44

Comparing Power, Exponential and Logarithmic Functions

- Sec. 11.6 pp.346+ # 1, 2, 4, 6, 7 – 17, 23, 24,
26 - 32, 35, 36

Recommended for Review for Test II

End of Chapter Review Exercises and Check Your Understanding Questions

- Chap. 4: p.168 # 50, 51, 55, 63, 71, 73, 75
p.174 all
Chap. 5: p.215 # 1, 3, 7, 11, 15, 17, 19, 22 – 24, 27, 29,
39, 41, 47, 49, 53, 57, 61
p.218 # 1 - 23
Chap. 11 pp. 356+ # 26 – 29, 32, 33, 35, 41 – 43,
45 – 47, 49, 53, 54
p. 361 # 6 – 13, 18 – 47

Precalculus Homework III

Translations and Transformations

- Sec. 6.1 pp.229+ # 3, 5, 6, 29 & Skills Ref 9 & 10
Sec. 6.2 pp.239+ # 1, 3, 5, 9, 3 & Skills Ref 7 & 10
Sec. 6.3 pp.246+ # 19, 21, 39, 41 & Skills Ref 3
Sec. 6.4 pp.253+ # 1, 3, 20, 26 & Skills Ref 1 – 8
Sec. 6.5 pp.261+ # 9, 10, 11, 37

Matrices - Algebra

- Sec. 12.5 p. 403 # 1abcd, 3c, Multiply the matrices
A and A^{-1} given in #13
Sec. 12.6 p. 421 # 1 – 6, 7 – 17odd, 23, 25, 31,
49, 55, 59, 65, 71, 73

Matrices - Inverses

- Sec. 12.7 p. 438 # 1 - 5, 11, 13, 19, 25, 37, 39, 45,
51, 57, 67, 69

Matrices - Determinants

- Sec. 12.8 & 12.9 p. 460 # 1, 3, 5, 11 by hand,
2 by calculator, 19, 25

Completing the Square

- Sec. 14.3 pp.513+ # 13, 15, 17
Sec. 14.4 pp.518+ # 11, 13

Conic Sections

Parabolas

- Sec. --- read page 529. HW p. 531 #15, 19, 21, 22

Circles

- Sec. 14.2 pp.510+ # 6 – 9, 18 - 21

Ellipses

- Sec. 14.3 pp.513+ # 1 – 4, 13, 15, 17

Hyperbolas

- Sec. 14.4 pp.518+ # 1, 3, 11, 13, 17

Conics – Reflective Prop. & Applications

- Sec. 14.5 pp.531 # 1 – 21odd, 22 – 32, 37, 39, 41

Recommended for Review for Test III

End of Chapter Review Exercises and Check Your Understanding Questions

- Chap. 6 p.229 #10, 11, 33, 35; p.239 #18, 21, 27;
p.246 #1, 3, 23, 25, 35; p.253 #---

- Chap. 12: p.403 # 14bc; p.408 # 18 – 21, 23 – 25;
p.421 # 21, 27, 29, 39, 43, 67, 69;
p.439 # 22, 27, 49, 53; p.462 # 15

- Chap. 14 p.539 #23 – 25 ;p.540 #7, 15, 16, 18 – 20, 31-33

Chap 14 Supplement(Sec. 14.7)

- pp. 556+ # 1, 2, 3, 5, 7, 9, 11, 13, 15, 19, 21, 23, 25, 31,
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Precalculus Homework IV

Arithmetic Sequences and Series

Sequences

- Sec. 13.1 pp.471+ # 1 – 11odd, 12, 18 – 20, 23, 31,
38 – 41, 45

Arithmetic Series

- Sec. 13.2 pp.479+ # 1 – 15, 23, 25, 26

Geometric Series

- Sec. 13.3 pp.485+ # 1, 5, 7 – 15, 17, 19, 20
Sec. 13.4 pp.490+ #

Recommended for Review

End of Chapter Review Exercises and Check Your Understanding Questions

- Chap. 13 p. 492 # 2 – 9, 21
p.494 # 1 – 10, 12, 17, 18, 21, 22, 28 - 34

**Solutions/Answers to Custom Supplements

immediately follow the inserted sections. See pages 443, 463, and 562.

**Answers for Chapters 13 and 14 in the back of the book are under the headings for Chapters 15 & 16, respectively.

