

1.5 Exercises

See www.CalcChat.com for worked-out solutions to odd-numbered exercises. For instructions on how to use a graphing utility, see Appendix A.

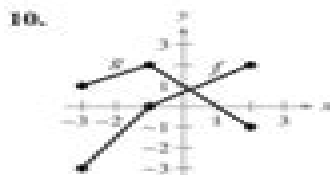
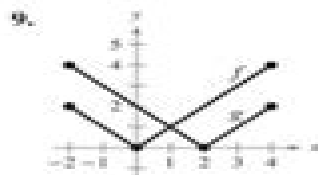
Vocabulary and Concept Check

In Exercises 1–4, fill in the blank(s).

- Two functions f and g can be combined by the arithmetic operations of _____, _____, _____, and _____ to create new functions.
- The _____ of the function f with the function g is $(f \circ g)(x) = f(g(x))$.
- The domain of $f \circ g$ is the set of all x in the domain of g such that _____ is in the domain of f .
- To decompose a composite function, look for an _____ and an _____ function.
- Given $f(x) = x^2 + 1$ and $(fg)(x) = 2x(x^2 + 1)$, what is $g(x)$?
- Given $(f \circ g)(x) = f(x^2 + 1)$, what is $g(x)$?

Procedures and Problem Solving

Finding the Sum of Two Functions In Exercises 7–10, use the graphs of f and g to graph $h(x) = (f + g)(x)$. To print an enlarged copy of the graphs, go to the website www.mathgraphs.com.



Finding Arithmetic Combinations of Functions In Exercises 11–18, find (a) $(f + g)(x)$, (b) $(f - g)(x)$, (c) $(fg)(x)$, and (d) $(f/g)(x)$. What is the domain of f/g ?

11. $f(x) = x + 3$, $g(x) = x - 3$

12. $f(x) = 2x - 5$, $g(x) = 1 - x$

✓ 13. $f(x) = x^2$, $g(x) = 1 - x$

14. $f(x) = 2x - 5$, $g(x) = 5$

15. $f(x) = x^2 + 5$, $g(x) = \sqrt{1 - x}$

16. $f(x) = \sqrt{x^2 - 4}$, $g(x) = \frac{x^2}{x^2 + 1}$

17. $f(x) = \frac{1}{x}$, $g(x) = \frac{1}{x^2}$

18. $f(x) = \frac{x}{x + 1}$, $g(x) = x^2$

Evaluating an Arithmetic Combination of Functions In Exercises 19–32, evaluate the indicated function for $f(x) = x^2 - 1$ and $g(x) = x - 2$ algebraically. If possible, use a graphing utility to verify your answer.

19. $(f + g)(3)$

20. $(f - g)(-2)$

21. $(f - g)(0)$

22. $(f + g)(1)$

23. $(fg)(6)$

24. $(fg)(-4)$

25. $(f/g)(-5)$

26. $(f/g)(0)$

27. $(f - g)(2t)$

28. $(f + g)(t - 4)$

29. $(fg)(-5t)$

30. $(fg)(3t^2)$

31. $(f/g)(-t)$

32. $(f/g)(t + 2)$

Graphing an Arithmetic Combination of Functions In Exercises 33–36, use a graphing utility to graph the functions f , g , and h in the same viewing window.

33. $f(x) = \frac{1}{2}x$, $g(x) = x - 1$, $h(x) = f(x) + g(x)$

34. $f(x) = \frac{1}{2}x$, $g(x) = -x + 4$, $h(x) = f(x) - g(x)$

35. $f(x) = x^2$, $g(x) = -2x$, $h(x) = f(x) \cdot g(x)$

36. $f(x) = 4 - x^2$, $g(x) = x$, $h(x) = f(x)/g(x)$

Graphing a Sum of Functions In Exercises 37–40, use a graphing utility to graph f , g , and $f + g$ in the same viewing window. Which function contributes most to the magnitude of the sum when $0 \leq x \leq 2$? Which function contributes most to the magnitude of the sum when $x > 6$?

37. $f(x) = 3x$, $g(x) = -\frac{x^2}{10}$

38. $f(x) = \frac{x}{2}$, $g(x) = \sqrt{x}$

39. $f(x) = 3x + 2$, $g(x) = -\sqrt{x + 5}$

40. $f(x) = x^2 - \frac{1}{2}$, $g(x) = -3x^2 - 1$

Precalculus With Limits Answers Chapter 5

Michael Seilmaier



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A Graphical Approach to Precalculus with Limits Student's Solutions Manual John Hornsby, Margaret L. Lial, Randy Krieger, Gary K. Rockswold, Terry A. Krieger, 2006-03 This edition has evolved to address the needs of today's student. While maintaining its unique table of contents and functions-based approach, the text now includes additional components to build skill, address critical thinking, solve applications, and apply technology to support traditional algebraic solutions. It continues to incorporate an open design, helpful features, careful explanations of topics, and a comprehensive package of supplements and study aids to provide new and relevant opportunities for learning and teaching. **Precalculus with Limits** Ron

Larson, Robert P. Hostetler, Bruce H. Edwards, 2001 For a full description see Larson et al. *College Algebra A Graphing Approach* 3e **Precalculus with Limits** Mark Dugopolski, 2002 Building on Mark Dugopolski's name, this graphing optional text is designed for the one or two semester precalculus course and includes coverage of analytic geometry, vectors, and the limit. With faster pacing and less review, this is an excellent choice for those students going on to calculus.

Graphing Calculator Manual for a Graphical Approach to Precalculus with Limits Daryl Nester, John Hornsby, Margaret L. Lial, Gary K. Rockswold, 2006-04 [Study and Solutions Guide for Precalculus](#) Bruce H. Edwards, Larson, 1994

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Precalculus Cynthia Y. Young,2023-05-16 Cynthia Young s Precalculus 4th edition helps students take the guesswork out of studying by offering them an easy to read and clear roadmap that tells them what to do how to do it and whether they did it right With this revision the author focuses on the most difficult topics in precalculus bringing clarity to challenging learning objectives

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