Homework: Function Values and Domain
Selected Answers

Honors PreCalculus

p. 69 28, 29, 32, 34, 36, 39(d-h), 43(d-h), 48, 49, 54, 56, 58

28. Function

29. Function

32. Not a Function

34. Not a Function

36. Function

39d. $f(-x) = 3x^2 - 2x - 4$
e. $-f(x) = -3x^2 - 2x + 4$
f. $f(x+1) = 3x^2 + 8x + 1$
g. $f(2x) = 12x^2 + 4x - 4$
h. $f(x+h) = 3x^2 + 6xh + 3h^2 + 2x + 2h - 4$

43d. $f(-x) = |x| + 4$
e. $-f(x) = -|x| - 4$
f. $f(x+1) = |x+1| + 4$
g. $f(2x) = |2x| + 4$ or $2|x| + 4$
h. $f(x+h) = |x+h| + 4$

48. D: $(-\infty, \infty)$

49. D: $(-\infty, \infty)$

54. D: $(-\infty, -2) \cup (-2, 0) \cup (0, 2) \cup (2, \infty)$

56. D: $(-\infty, 1]$

58. D: $(4, \infty)$