

Honors Math Analysis
Semester 1 review
Even answers

Chapter 1

24a) $\{5,41\}$

Chapter 2

- 6a) D: $-5 \leq x \leq 4$ R: $-3 \leq y \leq 1$ b) $f(-1) = 1$ c) intercepts (0,0) (4,0)
d) increasing (3,4) decreasing (-1,3) constant (-5,-1)
e) neither

Chapter 3

10. V(-1,-4) axis $x = -1$ x-intercepts -3,1 y-intercept -3

Chapter 4

8. V $(\frac{-1}{4}, \frac{33}{8})$ axis $x = \frac{-1}{4}$ x-intercept 1.19, -1.69

Chapter 5

38. D $(0, \infty)$ R $(-\infty, \infty)$ vasy $x = 0$
42. D $(-\infty, 0)$ R $(-\infty, \infty)$ vasy $x = 0$

Chapter 14

14. 2 24. continuous 26. not continuous because $f(x)$ is undefined.
28. not continuous because $\lim_{x \rightarrow 0} f(x) \neq f(0)$
38. -2 40. 2 42. ∞