

1.2 Day 3 HW KEY

Tuesday, August 25, 2015
8:30 PM

pg. 102) # 25-28, 35-46, 47-53 odd

25) local max: $(-1, 4)$ & $(5, 5)$
local min: $(2, 2)$
+ : $(-\infty, -1] \cup [2, 5]$
- : $[-1, 2] \cup [5, \infty)$
c : n/a

26) local max: $(5, 7)$
local min: $(1, 2)$
Neither: $(3, 3)$
+ : $[1, 5]$
- : $(-\infty, 1] \cup [5, \infty)$
c : n/a

27) local max: $(1, 5)$
local min: $(5, 1)$
Neither: $(-1, 3), (3, 3)$
+ : $(-\infty, 1] \cup [5, \infty)$
- : $[1, 5]$
c : n/a

28) local max: $(1, 6)$ & $(5, 4)$
local min: $(-1, 1)$ & $(3, 1)$
Neither:
+ : $[-1, 1] \cup [3, 5]$
- : $(-\infty, -1] \cup (1, 3] \cup [5, \infty)$
c : n/a

35) bounded 

37) bounded below 

36) bounded above 

38) bounded below 

39) bounded

40) unbounded

41) local min:
 $y = 3.75$ @ $x = 0.5$

42) local max: $y = 4.08$ @ $x = -1.15$
local min: $y = -2.08$ @ $x = 1.15$

43) local min: $y = -4.09$ @ $x = -0.82$
local max: $y = -1.91$ @ $x = 0.82$

44) max: $y = 9.18$ @ $x = -1.67$
min: $y = 0$ @ $x = 1$

45) max: $y = 9.16$ @ $x = -3.20$
min: $y = 0$ @ $x = 0$
 $y = 0$ @ $x = -4$

46) max: $y = 0$ @ $x = -2.5$
min: $y = -3.13$ @ $x = -1.25$

47) even

49) even

51) neither

53) odd