

AP Calculus AB: HW 1.5A

6. a. 4

b. 4

c. 4

d. Undefined
(no number is defined at $h(-3)$)

e. 1

f. -1

g. DNE; both one-sided limits must be equal

h. 1

i. 2

j. Undefined
(no # defined at $x=2$)

k. 3

l. DNE

numbers approach $[2, 4]$
limits have to be 1 number.

8. a. ∞

b. $-\infty$

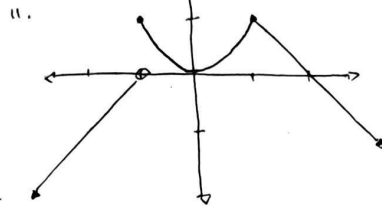
c. ∞

d. $-\infty$

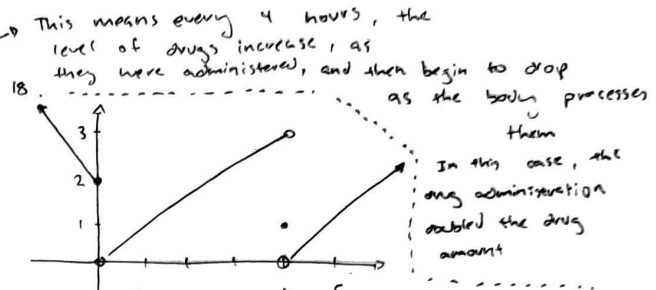
e. $x = -3, x = 2, x = -1$

10. $\lim_{t \rightarrow 12^-} f(t) = 150$; before

$\lim_{t \rightarrow 12^+} f(t) = 300$; after

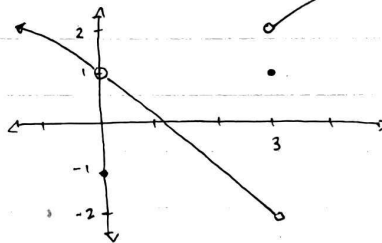


11. $\lim_{x \rightarrow a} f(x)$ exists on the interval $(-\infty, -1) \cup (-1, \infty)$



This means every 4 hours, the level of drugs increase, as they were administered, and then begin to drop as the body processes them. In this case, the drug administration doubled the drug amount.

16.



18.

