## Limits graphically

Murroers 2) braph 31 Algerova



Limits Graphically By: Lic. Lucy Solis



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I. Based on the graph find the following limits.

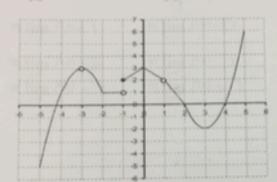
a) 
$$\lim_{x \to y} f(x) = 3$$
  
d)  $\lim_{x \to y} f(x) = 2$ 

e) 
$$\lim_{x \to \infty} f(x) = 2$$

9) 
$$\lim_{x \to 2} f(x) = -2$$
 h)  $\lim_{x \to 2} f(x) = -2$ 

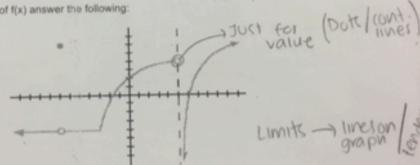
$$0 \lim f(x) = 2 f(1) =$$

$$0 \lim_{x \to 0} f(x) = -2 + (3) = -2$$



\* lim f(x) = 2

II. Given this graph of f(x) answer the following:



- 1) 1(5)= 7
- 2) f(-7)= (0

- 3)  $\lim_{x\to 0} [f(x)] = 2$  4)  $\lim_{x\to 0} [f(x)] = 2$  5)  $\lim_{x\to 0} [f(x)] = 2$   $\{(0) = 2\}$

- 6)  $\lim_{x \to 7} [f(x)] = -4$  7)  $\lim_{x \to 7} [f(x)] = -4$  8)  $\lim_{x \to 7} [f(x)] = -4$  f(-7) = 0
- 9) Lim[f(x)] = 4
- 10)  $Lim[f(x)] = -\infty$
- 11) Lim[f(x)] 2 {(5)=2

III. Based on the graph find the limits

a) 
$$\lim_{x\to -1^n} f(x) = 1$$

b) 
$$\lim_{x\to -1^-} f(x) = \bigcirc$$

d) 
$$\lim_{x\to 1^+} f(x) = 2$$

e) 
$$\lim_{x \to 0} f(x) = 1$$

9) 
$$\lim_{x\to 2^n} f(x) = 1$$

h) 
$$\lim_{x\to 2^-} f(x) = 1$$

c) 
$$\lim_{x\to 1} f(x) = 2 + (-1) = 1$$

1) 
$$\lim_{x \to \infty} f(x) = 2 + (1) = -2$$

$$0 \lim_{x \to 0} f(x) = 2 + ((1) = -2)$$

$$0 \lim_{x \to 0} f(x) = 1 + ((2) = 1)$$