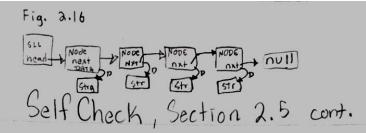
Self-Check Exercises 1-5 Section 2.5

1.) Single-linked list get Operation. $\Theta(n)$ 2.) Set () operation 3.) add () methods: add (intindex, Eitem) - O(1) O(n) add (Eitem) - Gin bool add (Eitem) - O(n) 4. Draw; Single Linked List of Integer objects 5, 10, 7, and 30 Complete fragment: adds all Integer objects. 1 fragment add Nums () { HEAD 2 int sum = 0; X3 Node < Integer > nodeRef = _ 4 while (nodeRef!= null) { data = 30 6 int next = _ i line 3. Node (Integer > node Ref = head; b Sum += next; 7 nodeRef = ___; } lines int next = nodeRef. next;

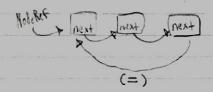
line 7 node Ref = node Ref. next;



5.) for Linked List in Figure 2.16, data field head (type Node) references the first node;

- head) and the next pointer to old heads. next

b.) gets the node Ref pointer to next node after the head sets mode Refs next pointer to the next pointer's pointer.



C.) Sets the node Ref pointer to head traverses list by following the reference (and assigning node Ref to it's own next pointer, while the next node is not null. Adds as new node to end of hist with String "Tamita"

d.) Sets nodeRef to head, traverses List by assigning nodeRef to next node; while next node is not null and does not equal the String "Harry" If "Harry" is found, sets that node's data to "Sally" and sets the next node to "Harry" and t