

Name _____ Section _____ TA _____

1. Fill in the blanks in this definition:

```
;This function returns false if a number, x, is not in a proper list,  
;and if x is in the list it returns the sublist beginning with x.
```

```
(define member?  
  (lambda (x alist)  
    (cond ((null? alist) #f)
```

```
          _____  
          (else _____)
```

2. Show how the interpreter responds if you type the following expressions in the order shown:

```
> (define a (cons 1 2))  
> a
```

```
_____  
> (cdr a)
```

```
_____  
> (cons 3 a)
```

```
_____  
> (list 1 2)
```

```
_____  
> (cons 2 (cons 3 ()))
```

```
_____
```