280 Quiz 3/8/07 10 pts.

Name _____ Section ____ TA _____

1. Consider the following code:

```
(define make-rat
  (lambda (num denom)
    (cons num denom)))

(define display-rat
  (lambda (rat)
    (display (car rat))
    (display "/")
    (display (cadr rat))))

(define mult-rat
  (lambda (a b)
    (make-rat
     (* (car a) (car b))
     (* (cadr a) (cadr b)))))
```

   According to our discussion in class, this code is lacking a feature we learned about in Data Structures. 1) What is the name of the feature? 2) If the code **did have** the feature, what could we change in the code to **demonstrate** the presence of the feature? Be brief.

2. Write the function **test** that takes a procedure, an argument and a test value, and returns true if the evaluation of the procedure on the argument produces the test value, e.g. if square is already defined:

```
> (test square 3 9)
#t
```