1. **Q(a b x d) = (car (cdr (cdr '(a b x d))))**
    - cdr '(a b x d) = (b x d)
    - cdr (b x d) = (x d)
    - car (x d) = x
2. **(a (b (x) d)) = (car (car (cdr (car (cdr '(a (b (x d))))))))**
    - cdr '(a (b (x) d))) = ((b (x) d))
    - car ((b (x) d)) = (x d)
    - car (x d) = x
3. **((((a (b (x) d)))) = (car (car (cdr (car (cdr (car (car '((((a (b (x) d))))))))))))**
    - car '((((a (b (x) d)))) = ((a (b (x) d)))
    - car ((a (b (x) d))) = (a (b (x) d))
    - cdr (a (b (x) d)) = ((b (x) d))
    - car ((b (x) d)) = (x d)
    - car (x d) = x

4.

a. **(a b x d)**
   The cons cell representation is:
   (cons 'a (cons 'b (cons 'x (cons 'd nil))))
b. **(a (b (x d)))**
   The cons cell representation is:
   (cons 'a (cons (cons 'b (cons (cons 'x (cons 'd nil)) nil)) nil))
c. **((((a (b (x) d))))**
   The cons cell representation is:
   (cons (cons (cons 'a (cons (cons 'b (cons (cons 'x nil) (cons 'd nil))) nil)) nil) nil)