

## Homework 1

1. Valid or invalid:
  - a. Valid, a single atom is a valid s-expression.
  - b. Valid, a valid s-expression in syntax as well.
  - c. Valid, same as i., a single atom and a valid s-expression.
  - d. Valid, same as ii., completely valid.
  - e. Valid, a list of two numbers.
  - f. Invalid (mismatched parentheses).
2. Testing for equality is as simple as testing if, with two numbers, one subtracted from the other results in 0. So we can use (if0 (- (ArithC) (ArithC)) (then) (else)) to perform an equality test.