# 1. 2.4, p.155

**C:**

**F:**

# 2. 2.6, p.155

**B:**

is the complement of .

The CFG that generates is:

Similarly the CFG that generates is:

The CFG that generates is:

So, the CFG that generates L is:

# 3. 2.14, p.156

Step 1:

Step 2:

Step 3:

Step 4:

# 4.

q4

q3

q2

q7

q6

q5

q1

q10

q9

q8

# 5.

# 6.

qstart

qloop

qaccept