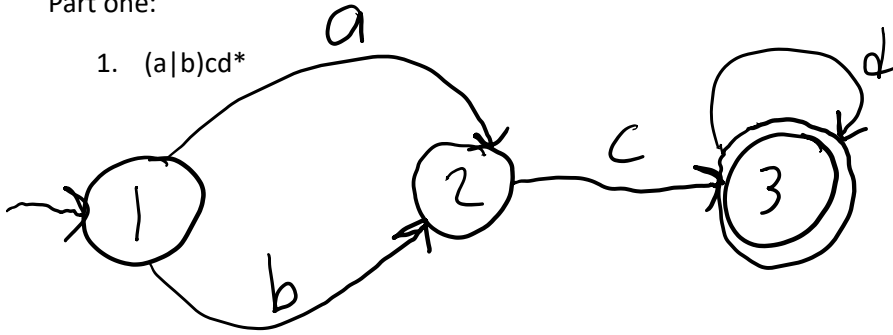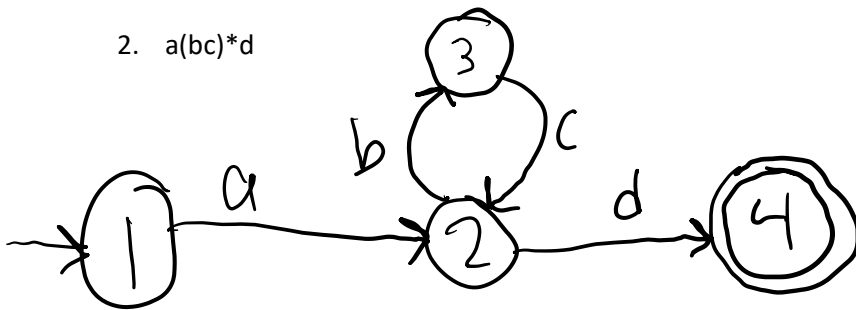Part one:
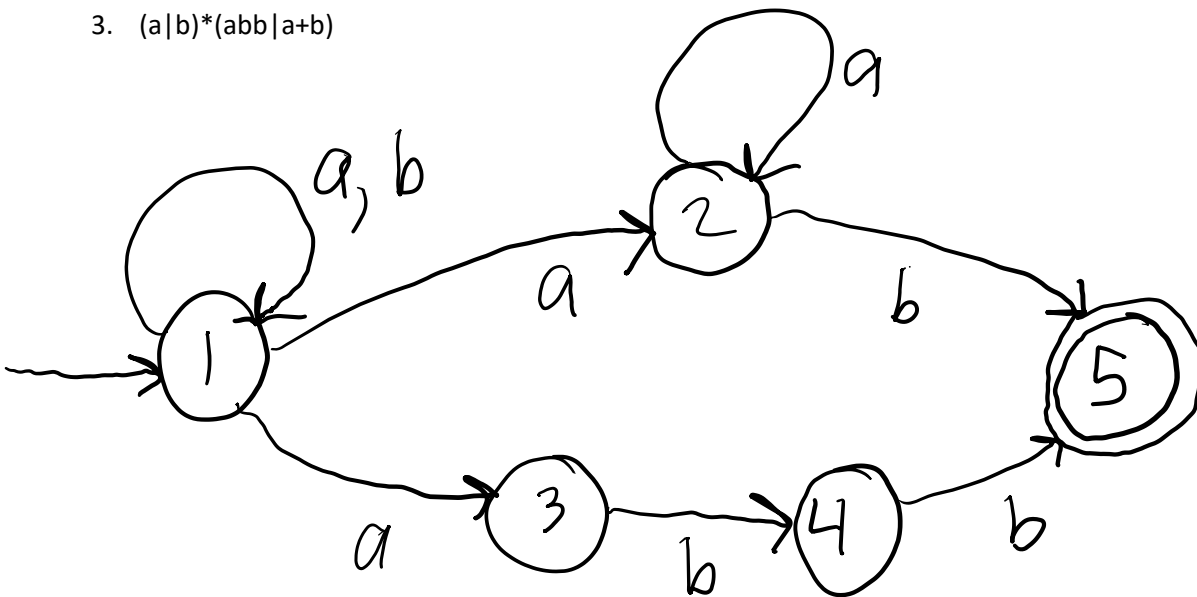
1. (a|b)cd*

2. a(bc)*d

3. (a|b)*(abb|a+b)

Part two:

```
This is line 1    :   abc acdd abcbcd ac bcddd ad
 ********* This is for the first RE - (a|b)cd*
RE is : (a|b)cd* & input string is :   abc
     From main :  Reject - abc
RE is : (a|b)cd* & input string is :   acdd
     From main :  Accept - acdd
RE is : (a|b)cd* & input string is :   abcbcd
     From main :  Reject - abcbcd
RE is : (a|b)cd* & input string is :   ac
     From main :  Accept - ac
RE is : (a|b)cd* & input string is :   bcddd
     From main :  Accept - bcddd
RE is : (a|b)cd* & input string is :   ad
     From main :  Reject - ad
 ********* This is for the second RE - a(bc)*d
RE is : a(bc)*d & input string is :   abc
     From main :  Reject - abc
RE is : a(bc)*d & input string is :   acdd
     From main :  Reject - acdd
RE is : a(bc)*d & input string is :   abcbcd
     From main :  Accept - abcbcd
RE is : a(bc)*d & input string is :   ac
     From main :  Reject - ac
RE is : a(bc)*d & input string is :   bcddd
     From main :  Reject - bcddd
RE is : a(bc)*d & input string is :   ad
     From main :  Accept - ad
This is line 2    :   abbbbbbc acddddddd abcbcbcbcd
 ********* This is for the first RE - (a|b)cd*
RE is : (a|b)cd* & input string is :   abbbbbbc
     From main :  Reject - abbbbbbc
RE is : (a|b)cd* & input string is :   acddddddd
     From main :  Accept - acddddddd
RE is : (a|b)cd* & input string is :   abcbcbcbcd
     From main :  Reject - abcbcbcbcd
 ********* This is for the second RE - a(bc)*d
RE is : a(bc)*d & input string is :   abbbbbbc
     From main :  Reject - abbbbbbc
RE is : a(bc)*d & input string is :   acddddddd
     From main :  Reject - acddddddd
RE is : a(bc)*d & input string is :   abcbcbcbcd
     From main :  Accept - abcbcbcbcd
PS C:\Users\mikec_g1kgiu8\OneDrive\Desktop\CS 3342\Homework 2>
```