

# forritunarmál - verkefnablað H1

1.

B)

2.

a)

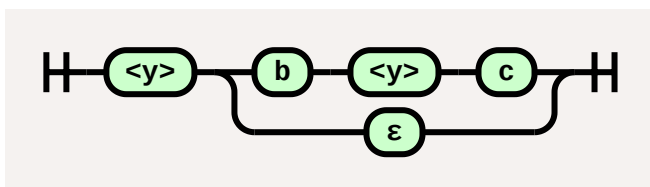
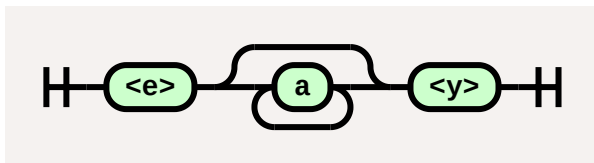
BNF:

```
<e> ::= <x> <y>  
<x> ::= "a" <x> | ε  
<y> ::= "b" <y> "c" | ε
```

EBNF:

```
e ::= {a}, [y]  
y ::= b, [y], c
```

málrit:



b)

Þetta mál er ekki samhengisfrjálst og vegna þess er ekki hægt að útfæra BNF, EBNF eða málrit

c)

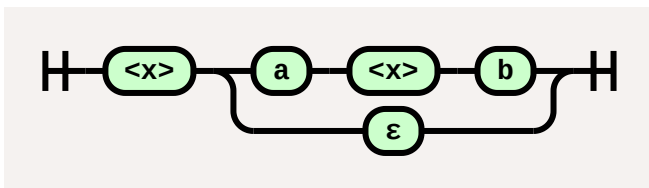
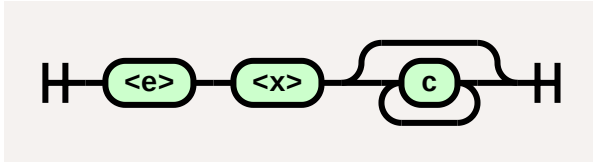
BNF:

```
<e> ::= <x> <y>  
<x> ::= "a" <x> "b" | ε  
<y> ::= "c" <y> | ε
```

EBNF:

```
e ::= [x], {"c"}
x ::= "a", x, "b"
```

málrit:



d)

þetta mál er ekki samhengisfrjálst og vegna þess er ekki hægt að útfæra BNF, EBNF eða málrit

e)

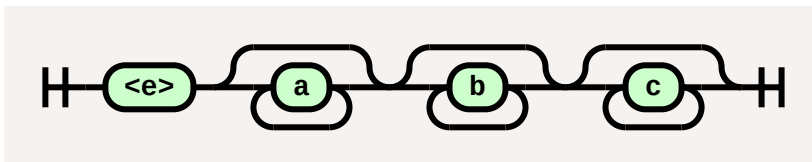
BNF:

```
<e> ::= <x> <y> <z>
<x> ::= a <x>
<y> ::= b <y>
<z> ::= c <z>
```

EBNF:

```
e ::= {a}, {b}, {c}
```

málrit:

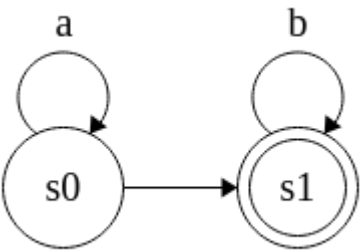


3.

útskýring

þetta mál inniheldur alla strengi sem byrja á 0 eða fleiri a og enda á 0 eða fleiri b dæmi um strengi  
 "", "a", "b", "aabb"

stööuvél



málrít

