c) [yyz | [yow | [yyc | [yvr | [yul | [YEG]]]]]] and [A1, A2| A3].

= [yyz | [yow | [yyc | [yvr | [yul, YEG]]]]]

= [yyz | [yow | [yyc | [yvr , yul, YEG]]]]

= [yyz | [yow | [yyc , yvr, yul, YEG]]]

= [yyz | [yow , yyc , yvr, yul, YEG]]

= [yyz , yow | [yyc , yvr, yul, YEG]]

A1 = yyz

A2 = yow

A3 = [yyc , yvr, yul, YEG]

∴ can be made identical.

d) [apple, Z, bee | [Z, car, door]]

= [apple, Z , bee , Z, car, door]

= [apple , Z | [bee, Z, car, door]

= [apple, Z | [bee, Z | [car, door]]

= [apple, Z | [bee, Z | [car | [door]]]

[X | [bee, Y | [Q | R]]]

X = apple, Y = Z , Q = car, R = door

∴ cannot be made identical. there are two occurences of Y = Z in the first list, but only one occurence in the second list.

e) [z | [Z | [[Z | [[z]]]]]] and [b | Y]

= [z | [Z | [[Z , [z]]]]] Z Z , [Z , [z]]

= [z | [Z , [Z , [z]]]] Z = b

= [z , Z , [Z , [z]]]

= [b, b, [b, [b]]]

∴ can be made identical when Z = b and Y = b, [b, [b]]

f) [U | [W | [U]]] and [the, quick, brown, fox, W]

= [the | [quick | [brown]]] = [the | [quick, brown, fox, W]]

= [the | [quick | [brown, fox, W]]]

quick

U = the, W = quick, U = brown

∴ cannot be made identical. The first list only accepts 3 elements while the second accepts 5 elements.

a. [X, Y | Z] and [p, q, r, s, t | [u, v, Y]]

$$RS = [p, q, r, s, t, u, v, Y]$$
$$= [p, q \mid [r, s, t, u, v, Y]]$$

$X = p$

$Y = q$

$Z = [r, s, t, u, v, Y]$

where Y can be any value

$\therefore$ can be made identical