Andrew Plum Assignment #2 Prof. Beeston 15 210 3/30/2023 1) <pattern>:=<yarialde> | <constant> | <tuple> | | (more patterns):= , (patterns & more patterns > Kempty> (tuple):=(<pattern>, <pattern> (more patterns>) <1:4+> := [] [<1:st element> < more list elements >] <1:st> @<1:st> (more list elements):= , < list element > (more list elements) (compty> <more cons>::=::<list element < more cons> (empty) 2)6) Step Action x=3k; k is an integer y=24m; m is an integer y=24m = 3(8m) x=3k; k is an integer because (8m) is an integer :. X:= y is safe c) Counter example: 7 is a prime integer greater than 3 and is not divisible by 3 · Z := X is unsafe

