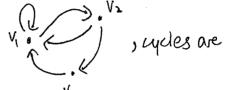
## Questions for EZquiz 1

- · Define total function (p6)
- · Define partial function (pb)
- · Defive graph (p8)
- . What is the difference between a walk and a path? (18)
- · Define eycle (p8)
- · If S is a set, what does 25 mean? (p5)
- Let A = {x, y, 2}. Write down 2A. Solution: { \$\phi\$, {x}, {y}, {2}, {xy}, {xz}, {yz}, {xy}}
- · Example 1.5 from Linz (plo).
- · Exercise 220 from Linz \$1.1. Solution: Vi , cycles are



 $V_1 \rightarrow V_1$ VI-JVI-JVI いっとうなつり

- . Define language on an alphabet Z using (a) words, (b) mathematical notation Soln: (a) a set of non-empty strings of symbols in the alphabet (b) language L C S\*
- · Define grammar (p21)
- · Linz Example 1.12 (p23)
- · What is the difference between an accepter and a transducer? (p27)
- · Defive dfa (138)
- · Given dfa  $M = (Q, \Xi, S, q_0, F)$ , defive L(M) in math notation (p40). Soln: L(M) = { w∈ Z\*: S\*(qo,w) ∈ F}
- · Define <u>regular language</u> (p 45)
- · Exercise 26) from Linz \$2.1