3/23 Lec 14 - Fy A tree module - module which adrits a basis, or 'Some cardinality of booss = isomorphic · MaM 2 (1) Ax; / ax; exact seguence - exact seguence of B -> X -> 0 · Sequence X' 3 X 3X" 30 is HONA(X) I - HONA(X) E HONA(X) Exact II. · Sequence O-5 1' -> 1' exact (1887 Another CXX) Another CXX Another C is exact dx

Split short exact sequence - A modules,
A-modules,

O-5x x+3(x,0) XDY -3 Y -3 O 2a. Module is direct surmand at itself = 16 Left - reg module of A => free module 3.4.

1 - Hinal wegule biologies pat vet tibe Post regular module => free But both not free 5a. Free Z-module => Fr (B) = H) Z => vor von-são élevents et 6 hois at least I such elevent -> 6. vot girlet . 2 . 200 b Hanz (ZINZ) not exact ble whyed IT