



Maccepts x if (90, X, O) ((9acc, y, i)) for some y, i. M rejects X if (qo, x, 0) m (qrej, v, i) for some y, i. (other possibilities : crash or not halt ...) Given LS Et, M accepts L if L = { x E E*: M accepts x} 7 M decides L if YXEL, M accepts X and YXEL, M rejects X. 1 L is decidable if L is decided by some TM. Def L is recursively enumerable. if L is accepted by SOME TM. decidade re, GL ۱ ng diagram notation a/a',D (q') S(q,a) = (q',a',D)Ex { or 1 2" : n7 13 DDD XXX ZZ 2000 0/0,7 Y/2,1 1/1,7 Dooki Z22 Y/Y,ti O(0,+\ 2/2,tl 1/1,tl 0/X+1 2/2.-1 1/4,41

