OIR HTAM Assignment 2 Anthony 1. a) Matrix B io in echelon Form, as Jones 8/28/20 the first nonzero entry in each row has 0's below it, and every all-zero row (Row 4) is below the other rows. b) Matrix B is not in reduced row echelon form simply because the pivot for now 3 is not 1. 2. a) The two metrices are row-equv. because they can be transformed into each other wing only the standard row operations: (Ma + Mb) R'1 = R1 R'2 = R1+R2 R'3 = 2R3 b) Assuming the two matrices are indeed row-eaux. allows us to exily reduce the second matrix into RR echelon form: 5 - 2(5) - 12(5) - 11(3) 20 +6(5) + 6(5) + 2(3) 4+0(5)+0(5)+0(3) ... which is a different solution set than matrix one. Therefore, the two

matrices must not be row - Eyuv.

Assignment 2 (somtimed Cont.) MATH 311C Anthony STUNES 8128120 G' | R'I = RI - 3R'2 = [1 2 0 - 28] $G' | R'2 = \frac{1}{2}(R2 - 5RI) = [0 0 1 6]$ R'1 = = R4 111 R'2 = R1 R13= = R2 R14= = R3 R'2 = R2 - R1 R'3=R3-R2 R'1=R1-3R2 R12 = R2 R'3=R3-R2 # This System is consident because all zero-only rows 0 0 I have 0 in the guy. When As the system is consistent and in row reduced echelon form, the system has sautions a=-1-26+3d c = 1 - .3 d ... which are infinitely many solutions.