Assignment (CAZ) 1) Let vo of: [0,1] > IR | f is integrade and so(x) dx 201 Giren f, ger $(f \oplus g)(x) = f(x) + g(x), x \in [0,1]$ REM (a.f) (x) 2x+(x), 2+[0,1] prove that (v, D,.) is a vector space 3) Verity Whether the set 5° 2 € (3,y) € 18 | 2°+3y € 1 }, with word rector sym and scalar multiplication is a vector space or not. (21, y1), (22, y2) CIR (み,す)の(2,ま)=(2+2,よりまり) AEIR of (x, y) = (x, x, d. y.) 3 Let W 2 of (my) EIR | 62+107 =0} Prove that W is a rector spore Dith usual vector sum and usual scales multiplication