

· Clard under scalar multiplication Let feccois, a e R. The product of a scalar and a continuous function is a continous function. =) =) af e c [o,1]. C([o,1], R) in a subspace of R(o,1] (C) D= {f \in R : f in differentiable } D is a subspace of R · Additive identity. Lt $f: R \rightarrow R: f(x) = 0$ f: s diffundiable with f(x) = 0 = 0 D · Closur under oddition. Let f, g ∈ D fig are differentiable on R in differentiable [+d = (+d)(x) = f(x) + d(x)







