Notes

2/19/18 Random Variables + Their Distributions · Review calculus - R.V.'s, probability distributions - parameters of probability distributions · Functions - 2 sets X and Y -> elements can be numbers, alphabet, animals, buildings ... - Suppose for X E X Y = any there is an association to an element in Ywhich we denote flx). This f is said to be a function from X to Y Xi domain of f (f is defined in X) Y: codomain of f - elements of flx) are called values of f. The set of all values of f is called the range f: X -> Y range c codomain f(x) range -if X = R' then f is called univariate function - if X= RK and K>2 then f is called multivariate function - if Y= IR' then & f is called real valued function - if Y= IR and K≥2 then f is called vector valued function $X = \mathbb{R}', Y = \mathbb{R}', f(x) = x \quad (f(x) = x, x \in \mathbb{R}')$ f(x) = x, x ∈ [0,1] range = [0,1] domain = [0, 1]



