

## Recall | Te

If FIR-DB, (? is a coff of a r.v x men.

(a) if zey men F(x) < F(y)

(5) lim F(2)=0 lim F(2)=1
2-000

(C) right cts. F(y) = lim F(x)

+4 more

Thm) If F:R-0[0,1] satisfies a, 10, c New 3 (10, F, P) pools exp & x:12 +12 v.v st • F=Fx

## PP ] Toes

Special Com F is CB and strictly become

Sa- (1(0) 1-9 = 2

MIN PROP

65 ((-10) a3) = (0) F(a)

Choose \_ SZ = (0) 1) . Let on be you.

venify = is cof & co.

1 = (0 )1)

F = Borel o- field

P = 5e S.+ P([a,6]) = 6-a

1) Fill in delais

2) and to yourse com.

DEP ) Discrebe R.V. IN some countains solvent of IR (image is comtable) In this case, the prob mass Runc of wis F: 12 - CO, 17 f(x) = P(x-x) Det ) Cts R.Y. A TY X is cts pt its cdf F can be expressed as  $F(x) = \int f(t) dt$ der some itemphe func f. In this case of is the prop dowing fre RMK Discrete ru & Cts ru ne not regulates & con the (eg. some of 1 discusse & 1 cts one) RMK) if x is a co RY Then, Fx is cts. But we comme is not thre. Q.g.) I - (0,1) F = Box1, P([a,6]) = (b-a) X: U - B x(y) = xu -> 1 (u+1) · 3 = 5x -1 (2) find Fx and determine its value = P((0, 22-1)) = 22-1 if \( \frac{1}{2} \le 2 \le 1

