STAT 405-001 31 North 2021 A) [ (Y : 1, 10) = f(x x ... x 10) = # f(x 10) = # 20x, e 0x2 = >11 0-515-0-> (B) F(W) = P(W \langle W) = P(Y \langle W) = P(Y \langle TW) = \begin{array}{c} 100 & 200 + NO-2 We can see this is the CDF of Wn Exp(0). lim 4-1 (20) = 0. Per (15 mas MTC 10) [1, ... 4 | 0) = 1 20 1 = 02 = (20) 17 1 = 04} = ロンションランランションウェア IE) + (W) = 20 (We - 0W) - Way 1F)E(Y)=0万=181至平 0=4, 02 = 20 = 2(4) = \$ Mus in 124 2 126 384 Theorem, YN(4, 1384). 4-111, 23 SD-Par the Central Limit T 0=55, == \frac{1}{20} = \frac{1}{2(5.5)} = \frac{1}{11} 40.001315

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