P. 548 # 1

X~ Exp(B), Sho: B > 1 us. Sho: B < 1

& sers reject if X >1.

(c.) TT (B18) = Probability (+8, ect 1B)

: 6(X31/B)

= 1 - F(1)

= e = e = e

(b) Sigl = max 77 (\$18) BEDro

e-Pis decreasing in B. so

hax e occurs at P=1

size = e.

#2 X,..., X-~ U[0,0], Y-= max(X1,..., Xn)

CAN 200 2 2008 =

b(A=1) = E(1) = b(X=1) = (19)

(c.)
$$\pi(0|8) : P(7, \leq 1.5/8)$$

$$= (\frac{1.5}{0})^{n}$$

(b.) $\leq 3\ell = \max \pi(0|8)$

$$= (0|8) : 2 \text{ decreois} in 0, so$$

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$$F(1) = \frac{1}{12} (1) = \frac{1}{12} (1) = 0.095655$$

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$$D_{0} = M \le 3$$

$$T = \frac{7 - M_{0}}{3.2 - 3} = \frac{3.2 - 3}{3.092329} = \frac{12.66}{3}$$

5x + 5x / ~ + m+n-2

$$T = \frac{2}{(\frac{w}{m^{2}})^{1/2}} \sim T_{m+m-2}$$

$$= \frac{(\frac{w}{m^{2}})^{1/2}}{(\frac{w}{m^{2}})^{1/2}} \sim \frac{(\frac{w}{m^{2}})^{1/2}}{(\frac{w}{m^{2}})^{1/2}} \sim \frac{1}{(\frac{w}{m^{2}})^{1/2}} \sim \frac{$$

15.06 - 1.634 7.3878

1.634 Tin

P-ucl = 0.0593

Reject et 0.1 revel since P-ell.1