Chapter 7 Example 7.3 (a) 11-34, 6-16, n-100 ox - 6 $6 \times = 16 > 16$ (b) The central limit theorem states that for lage sample spein, the Sampling distribution will be approximately normal P(2(330) - 1-(P(X La) 2 = P x - 1/x P(x > 30) - 1-,00379 P(X > 30) = 0.9962 (d) Find 95 percentile PG(< K) = 0.95

Date: __/__/20___ k = 2.475+34 K = 36.5 Try 9\$7.4. x = 16.01, n = 34, 11 = 16.00 (PX > 16.01) 1 - P(X Za) P(V > 16.01) = 1-65542

Day:
Example 7.1
u= 90.6-15, n-25
End sample mean is between
85 and 92.
Solution:
P(a = 51 = b) = \$(b) - \$(a)
P(85 4 7492)-P(85-90 171 02 1)
15/25 15/25
$= P \left(-\frac{5}{318} \right) = \frac{2}{318} \left(\frac{2}{318} \right)$
P(-5/3 2 2 2 2/3)
2 Table P(-1.67 6 7 6 7 0.67)
-1.67 = .4746 , 0.67 = .74857
P(-1.67 L Z L O.67) = .748574746
P(-1:67 = 2 = 0.67) - 0.2739
Example 7-2
M = 2, 6 = 0.5, n = 50
between 1.8 and 23
Solution:
P(a = x = b) = Q(b) - Q(a)
P(1.86262.3)-P(1.8-2626262-3-2)
0.5, 0.5(50)
-P/-0.2 LZL 0.3 (0.0707 0.0707)
(0.0707 0.0707)
_mests

Date: _//20	
Try 9+ 7-1	
M-45,6-8,n-30	
between us and bo Solution:	
Plaz x 2 b) = Q(b) - Q(a)	
P(42 L X L SO) - P(42-45 L Z L 50-45)	
P(-3 <u>2 2 4 8</u> 1.4606 <u>1.4606</u>)	