Elementary Statistics	N	ame:	
Study Guide 28	\mathbf{C}	lass:	
Due Date:	S	core:	
Your work must be ver	ry similar t	to my no	otes, lectures, or videos.
Be Neat, Or	rganized, and	No Work	⇔ No Points
	on being a La		in an attempt to find the pro- r not. The result of this survey
	Females	Males	
	$x_1 = 22$ $n_1 = 38$	$x_2 = 28$	
	$n_1 = 38$	$n_2 = 52$	
	Table Are You A L		
(a) (2 points) Find the p	ooled proport	sion \bar{P} .	
(b) (3 points) Construct a ulation proportion P_1			(a) for the difference between pop- 1.
(c) (1 point) Compute th	ne margin of ϵ	error.	(b)

 $\mathit{ESPN-LA}$ radio claims that the proportion of all females that are Lakers fan is the same as the proportion of all males that are Lakers fan. Test this claim at $\alpha=0.05$ by using the data in table 1.

(c) ____

	(d) (2 points)	Clearly state n_0 , n	1, identify the claim and	a type or test.
	$H_0:$			
	$H_1:$			
	, , , , ,	Find all related critic the critical region(s)	cal values, draw the dis	tribution, clearly mark
	(f) (2 points)	Find the computed	test statistic and the P	-value.
	C.T.S. : _		P-Value:	
	(g) (2 points) the claim.		erminology to state you	r final conclusion about
_				(g)
2.	same county to that economy to be construct for both cities	determine the difference is improving under p ted for the difference	conduct a survey in two ence in the proportions of president Trump. A 99% between the proportion the minimum sample si exceed 6%.	of residents who believe of confidence interval is ons. If the sample sizes
				2
3.	(3 points) Conportion \bar{P} .	$\mathbf{nsider} \ \hat{P}_1 = 0.585, n_1 = 1$	$110, \hat{P}_2 = 0.526, \text{ and } n_2 =$	90, Find the pooled pro
				3

4. (3 points) In a survey conducted recently by CNN in an attempt to find the proportion of adults that have an active account with Facebook. Among 225 females, 73% of them had an active account, while among $\overline{194}$ males, 62% had an active account. Complete the table below.

Females	Males
$x_1 =$	$x_2 =$
$n_1 =$	$n_2 =$

Table 2: Do You Have an Active Facebook Account?

Use the data in table 2 to answer the following parts.

(a) ((2 points)	Find the	pooled	proportion \bar{P} .	
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(b) (3 points) Construct a 95% confidence interval for the difference bet ulation proportion P_1-P_2 using data in table 2.				ifference betw	een pop-		
						(b)	
(c)	(1 point)	Compute the	e margin of	f error.			

(a) _____

(c) _

CNN claims that the proportion of all females with an active account is greater than the proportion of all males with an active account. Test this claim at $\alpha=0.05$ by using the data in table 2.

(d) (3 points) Clearly state H_0 , H_1 , identify the claim and type of test.

(e)		Find all related critical values, draw the distribute the critical region(s).	tion, clearly mark
(f)	(3 points)	Find the computed test statistic and the P-value	e .
	C.T.S. : _	P-Value :	
(g)	(2 points) the claim.	Use non-statistical terminology to state your final	l conclusion about
			(g)
bet	ween two p	calculator display presents confidence interval foopulation proportions. Compared to the confidence interval foopulation proportions. Compared to the confidence interval in proper mathematical confidence in proper mathematical confidence in proper mathematical confidence in pr	
			(a)
(b)	(2 points)	Find the margin of error.	
(c)	` - /	Test the claim that the proportion of population ortion of population 2.	(b) 1 is greater than
			(c)