APPENDIX F

The Three One-hour Examinations Administered to all Students in Both Groups

NO.	Record the characteristics of the factors and added characteristics, if any.	Digits of Answers	Char. of Ans.	ANSWER Show decimal point and point off properly.
1	(160.5)(30.25)			
2	$\frac{0.012,76}{0.17,267}$			
3	(32.48)(66.10)			
4	$\frac{0.6025}{2.335}$			
5	(0.2095)(13.77)			
6	$\frac{174,800.}{2.515}$			
7	(0.036,40)(0.5170)			
8	$\frac{606.0}{30.15}$			
9	(0.2075)(0.1407)			
10	$\frac{0.066,90}{0.6160}$			

NO.	Record the characteristics of the factors and added characteristics, if any.	Digits of Answers	Char. of Ans.	ANSWER Show decimal point and point off properly.
1	$\frac{(32.48)(73.95)}{1.983}$			
2	$\frac{(805.)(6450.)}{0.9730}$			
3	$(60.45)(0.034,75)(1372.)$			
4	$\frac{2.768}{(38.76)(0.051,70)}$			
5	$(14.17)(38.64)(0.9275)$			
6	$\frac{(2.986)(0.8175)}{11.64}$			
7	$(74.95)(0.037,62)(7245.)$			
8				
9				
10				

NO.	Record the characteristics of the factors and added characteristics, if any.	Digits of Answers	Char. of Ans.	ANSWER Show decimal point and point off properly.
1	$\frac{(32.75)(6975.)(0.000,131,5)}{(27,660.)(0.799)}$			
2	$\frac{(3.982)(12,450.)(0.0987)(6.25)}{476.5}$			
3	$(0.004,96)(32,740.)((1.718)(6.395)(100.4)$			
4	$\frac{0.006,325}{(9625.)(1.132)(0.009,975)}$			
5	$\frac{867,500.}{(317.2)(0.000,106,5)(63.15)(1977.)}$			
6	$\frac{(32.48)(97,650.)(825.)(0.000,100,2)}{2975.}$			
7				
8				
9				
10				

NO.	PROBLEM	ANSWER (with commas, decimal, etc.)
1	$\sin 70^{0}$	
2	$\tan 4^{0}$	
3	$\cos 86.2^{0}$	
4	$\cos 83.25^{0}$	
5	$\sin 0.9^{0}$	
6	$\tan 72.67^{0}$	
7	$\tan 35^{0}$	
8	$\sin 4^{0}$	
9	$\cos 6.2^{0}$	
10	$\tan 88.56^{0}$	
11	$\tan 45.2^{0}$	
12	$\sin^{-1} 0.5120$	
13	$\tan^{-1} 0.7250$	
14	$\cos^{-1} 0.555$	
15	$\cos^{-1} 0.0555$	
16	$\sin^{-1} 0.0512$	
17	$\tan^{-1} 1.825$	
18	$\sin^{-1} 0.0951$	
19	$\tan^{-1} 12.20$	

G. TECH 14
trig. quiz 137

NO.	PROBLEM	CHAR.	DIGITS	ANSWER (with commas, decimal, etc.)
1	0.0137 sin 26.4			
2	0.04 cos 87.6			
3	$\frac{0.4775}{\tan 20.6^{\circ}}$			
4	$\frac{0.003,990}{\sin 73.35^{\circ}}$			
5	0.004,75 tan 46.6°			
6	$\frac{80.5}{\cos 30.55^{\circ}}$			
7	$\frac{80.5}{\tan 40^{\circ}}$			
8	0.018 sin 5.70°			

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trig. quiz 138

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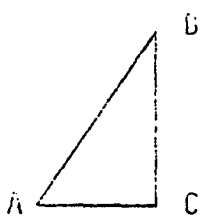
Solve for the missing parts in each triangle.

NO.	$\overline{AB}$	$\overline{AC}$	$\overline{BC}$	$\measuredangle C$	$\measuredangle B$	$\measuredangle A$
1	2550.			90^0		35^0
2		7.465	40.74	90^0		
3		9.674	146.8	90^0		
4	0.6744			90^0	15^0	
5		0.048,76	0.3002	90^0		
6	325.7			121.5^0	25^0	
7		27.75	67.44			85^0

General triangles:

1



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7

NO.	PROBLEM	MODIFIED PROB. (if needed) (use these columns only if you so desire)	MANTISSA	CHAR.	DIGITS (if needed)	ANSWER
1	log 6745.					
2	log 0.1271					
3	log 0.000,07					
4	antilog 4.875					
5	log 10.74					
6	antilog 0.0123					

NO	PROBLEM	COMPUTATION (if needed)	ANSWER
1	$e^{1.55}$		
2	ln 375.		
3	$e^{-0.064}$		
4	ln 0.4510		
5	$\frac{\ln 1.020,22}{0.020,22}$		
6	$e^{-0.000,05}$		
7	2.6(ln 3.44)		
8	$e^{0.029}$		
9	ln 0.986,051		
10	$\frac{\ln 0.0145}{4.6}$		
11	$e^{-5.76}$		

NO.	PROBLEM	SCALE CALCULATIONS	ANSWER
1	$(1.186)^{34.}$		
2	$(0.59)^{0.05}$		
3	$(0.75)^{-3.}$		
4	$(1.076)^{125.}$		
5	$(1.18)^{-2.5}$		
6	$\sqrt[-3.1]{0.7542}$		
7	$(0.713)^{-0.356}$		
8	$(360.)^{\frac{1}{17}}$		

NO	PROBLEM (Solve for x)	CALCULATIONS (if needed)	ANSWER
1	$\ln x = 0.7544$		
2	$e^x = 0.011{,}05$		
3	$0.8055^x = 0.000{,}560$		
4	$\sqrt[x]{255.} = 2.159$		
5	$1.041{,}10^x = 0.1156$		