Engin 103	Topics:
May 13, 2008	Reviews
	Logbook questions
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Engin 103 Class Notes - Sp '08





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	By applying a quadratic model with all three terms on the periods	
	and lengths of a pendulum, it is possible to determine	
Δ	True	
R	Falso	
D		
	1/	
	By applying a guadratic model with only the guadratic term	
	on the periods and lengths of a pendulum, it is possible to determine	
	the acceleration of gravity experimentally	
А	True	
В	False	
-	15	1
	What design element would have the least effect on the predictability of a catapult?	
А	A release mechanism instead of using your fingers	
В	Better fit yet less friction between the arm and its pivot point	
С	Using a sand bag versus a ping pong ball for the projectile	
D	Measuring lengths versus measuring angles	
E	Use a wide and heavy base	
	16	
	Look at equations (2)-(4) for the potentials V2-V4 in	
	Circuit Analysis with LabviEvv III. The sub-vi v_next can be used	
Δ		
R	No	
	17	
	You created a sub-VI called I after. After using Select a VI to call it	
	into the Block Diagram of a new Virtual Instrument, the output terminal is	
	not showing. What is the most probable cause of this?	
А	You forgot to Edit Icon before saving your sub-VI	
В	You used a division instead of a sum in the Block Diagram	
С	You forgot to Edit/Make Current Values Default before you saved the sub_VI	
D	You forgot to assign the output element to the output connector	
E	You are trying to connect data of different types	
	18	



	19			
	What elements are needed to produce a Waveform Graph?			
А	X and Y			
В	X and Y using a Bundle with two inputs			
С	Initial and final points for X, and the Y series			
D	Initial point and increment for X, and the Y series, and a two-input Bundle			
E	Initial point and increment for X, and the Y series, in a three-input bundle			
	20			
	A very common error when implementing a Case Structure is			
А	Undefined variable			
В	Missing assigned tunnel			
С	Missing semicolon at the end of the formula			
D	Content of the True and False windows are not the same			
E	Missing a string constant			
	21			
	What is the reason exact calculation (infinite precision) cannot be achieved with a digital computer?			
A	Certain fractional decimal number cannot be described in the binary representation			
В	Certain fractional decimal number cannot be described using a finite number of binary digits			
С	0.5 cannot be described exactly using a 8-bit binary number			
D	The highest decimal number you can write in 8-bit binary is 255			
E	The highest decimal number you can write in 4-bit binary is 15			
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LOGB	OOK: <u>example of a logbook page</u>			
-Use a quadrille notebook; number all pages; date all entries				
-Write your notes for all activities, thoughts, problems and solutions, and learning conclusions related to Engin 103. You should write				
down progress, outcomes, and conclusions on projects and teamwork; conclusions from class work (including LabVIEW) and homework.				
-In addition you should answer in the logbook all questions listed in these notes in blue, as shown below:				
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