Name:	Score:

30 Written questions

Definition	1 of 30
How does total temperature vary cross a normal shock wave?	
Definition	2 of 30
Oblique shock relations are basically the same as those for a normal shock except M1 is rep by $__$	laced
Definition How does entropy vary across an oblique shock wave	3 of 30
Definition How does static temp vary across a P-M wave?	4 of 30
Definition What is the quickest way to determine po2/po1 across an oblique shock	5 of 30
Definition Can we analytically determine T2/T1 across an oblique shock	6 of 30
Definition How does entropy vary across a normal shock wave?	7 of 30

Definition	8 of 30
Turning a supersonic flow "away from" itself will produce awave	
Definition	9 of 30
How does enthalpy vary across a P-M wave	
Definition	10 of 30
Write the mass conservation equation for 1-D flow in its simplest form	
Definition	11 of 30
Turning a supersonic flow "into" itself usually produces a(n)	
Definition	12 of 30
How does entropy vary across a bow shock wave	
Definition	13 of 30
Write the mass conservation equation for a Q-1-D flow	
Definition	14 of 30
At the exit of a nozzle, for "under-expanded" flow, we observe the presence of	
Definition	15 of 30

Definition	16 of 30
Give the equation for calculating the Mach angle mu for the free stream	
Definition	17 of 30
Does static pressure increase across an oblique shock?	
Definition	18 of 30
How does static pressure vary across a P-M expansion wave?	
Definition	
Does static temperature increase across an oblique shock?	
Definition	20 of 30
How does total pressure change across a P-M wave?	
Definition	21 of 30
Beyond this flow delfection angle, we get a bow shock wave	
Definition	22 of 30
How does total pressure vary across a bow shock?	
Definition	23 of 30
Total drops across a bow show wave	

24 of 30 Definition Turning a supersonic flow "into" itself will produce a/an ___ wave **Definition** 25 of 30 The best example of a "____" is the normal shock wave **Definition** 26 of 30 Oblique shock relations are basically the same as those for a normal shock except M1 is replaced by Mn1 **Definition** 27 of 30 Can ew analytically find M2 and M1 for a normal shock wave Definition 28 of 30 Can we analytically solve the theta-beta-M relation for M **Definition** 29 of 30 In a liquid rocket engine, at full throttle, M at the exit is always Definition 30 of 30 Can we analytically determine p2/p1 across an oblique shock

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