Name: Score:

42 Written questions

Term 1 of 42

For R-F, heat removal from a M>1 flow will cause the Mach number to ___.

Term 2 of 42

In R-F, heat addition always causes a ___ in P_0

Term 3 of 42

What is the key reference condition in the analysis of F-F?

Term 4 of 42

The most efficient operational commerical jet from BOeing is the ___.

Term 5 of 42

The Grumman __ demonstrated for the first time in the US for the advantages of forward swept wings.

Term 6 of 42

The majority of aerial refueling tankers in US fleet are the Boeing ___

Term 7 of 42

The new stealth fighter from Lockheed with STOL capability is ___.

Term 8 of 42

The largest commerical jet ever made was the Airbus ___

Term 9 of 42

The Lockheed Martin ___ was the first supersonic fighter in the US that went into serial production

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Term 10 of 42

The North American ___ was the first US fighter with swept-back wings that went into serial production.

Term 11 of 42

How does T_0 vary in R-F with heat removal? It ___.

Term 12 of 42

How does T_0 vary in F-F? It remain the same, because the flow is ___.

Term 13 of 42

Can friction in F-F derive a M>1 flow toward Mach one?

Term 14 of 42

The US strategic bomber, after which all modern commerical aircraft are based was the Boeing ___.

Term 15 of 42

The first operational stealth fighter in US was the Lockheed ___

Term 16 of 42

Chuck Yeager flew this aircraft to become the first manned supersonic flight:

Term 17 of 42

The US bomber aircraft after which most commerical jets were created after:

Term 18 of 42

For R-F, heat addition from a M<1 flow will cause the Mach number to ___.

Term 19 of 42

For R-F , heat addition to M>1 flow will cause the Mach number to _____

Term 20 of 42

In F-F, how does friction change entropy for a M < 1 flow? It will _____

Term 21 of 42

The largest human-rated rocket ever was the NASA ___

Term 22 of 42

The only Boeing tri-jet commericial jet was the Boeing ___.

Term 23 of 42

In R-F, the condition of M=1 is called thermal ___.

Term 24 of 42

In R-F, heat addition always causes a/an ___ in T_0.

Term 25 of 42

Name one of the two branches of the Mollier diagram for F-F:

Term 26 of 42

Can friction in F-F drive a M>1 flow toward Mach one?

Term 27 of 42

For R-F, heat removal from a M < 1 flow will cause the Mach number to _____

Term 28 of 42

In F-F, "f" is just the non-dimensional versoin of (use symbol) ___.

Term 29 of 42

The only currently operational US swing-wing aircraft is the North American Rockwell (now Boeing) ___

Term 30 of 42

The Boeing-designed split winglet is for the new Boeing ___

Term 31 of 42

The largest rocket engine ever made was for NASA, the Rocketdyne ___.

Term 32 of 42

In R-F, the condition of M=1 corresponds to the condition of ___ entropy.

Term 33 of 42

Currently under construction and testing, the largest NASA rocket ever is ___.

Term 34 of 42

The only US large military transport with STOL capability is the Boeing ___.

Term 35 of 42

What is the key reference condition for analysis of R-F?

Term 36 of 42

The world speed record for a manned aircraft is __.

Term 37 of 42

The North American Rockwell ___ is the first aircraft to show effective thrust vectoring

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Term 38 of 42

The North American ___ was the first US fighter with swept back wings that went into mass production

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Term 39 of 42

The largest twin engine commreical jet ever made is the Boeing ___

Term 40 of 42

The world speed record by a manned aircraft was the North American ___

Term 41 of 42

How does P_0 vary in F-F? It ___.

Term 42 of 42

Enthalpy (h) versus entropy (s) diagram is the ___ diagram

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