Don't give up now! Trust the process.

Your time: 1 min

0%

Correct   0

Incorrect   42

Next steps

42 missed terms

Practice terms in Learn

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›

Your answers

1 of 42

Term 🔊

For R-F, heat removal from a M>1 flow will cause the Mach number to ___.
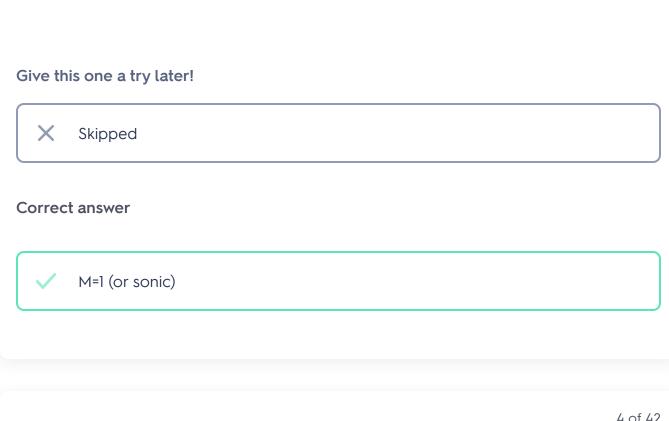
Give this one a try later!

✕   Skipped

Correct answer

✓ accelerate

Term 🔊

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

Give this one a try later!

✗ Skipped

Correct answer

✓ decrease

Term 🔊

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

Give this one a try later!

> ✕   Skipped

Correct answer

> ✓   M=1 (or sonic)

Term 🔊

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

Give this one a try later!

> ✕   Skipped

Correct answer

> ✓   B-787

Term 🔊

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

Give this one a try later!

✕ Skipped

Correct answer

✓ X-29

Term 🔊

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

Give this one a try later!

✕ Skipped

Correct answer

✓   KC-135 or B-707

Term 🔊

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

Give this one a try later!

✕   Skipped

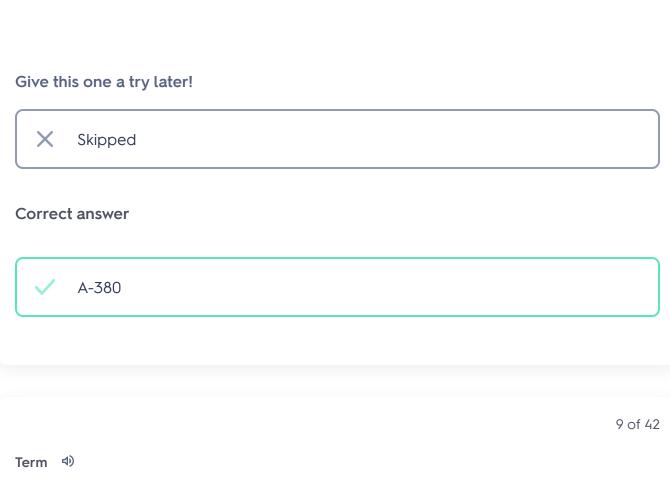**Correct answer**

✓   F-35B

Term 🔊

The largest commerical jet ever made was the Airbus ___

Give this one a try later!

> ✕   Skipped

Correct answer

> ✓   A-380

Term 🔊

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

Give this one a try later!

> ✕   Skipped

Correct answer

> ✓   F-104

Term 🔊

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

Give this one a try later!

✕   Skipped

Correct answer

✓   F-86

Term 🔊

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

Give this one a try later!

✕   Skipped

Correct answer

> ✓   decreases

Term 🔊

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

Give this one a try later!

> ✗   Skipped

Correct answer

> ✓   adiabatic

Term 🔊

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

Give this one a try later!

✕   Skipped

Correct answer

✓   Yes

Term 🔊

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

Give this one a try later!

✕   Skipped

Correct answer

✓   B-47

Term 🔊

The first operational stealth fighter in US was the Lockheed ___

Give this one a try later!

✕   Skipped

Correct answer

✓   F-117

Term 🔊

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

Give this one a try later!

✕   Skipped

Correct answer

> ✓   Bell X-1

Term 🔊

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

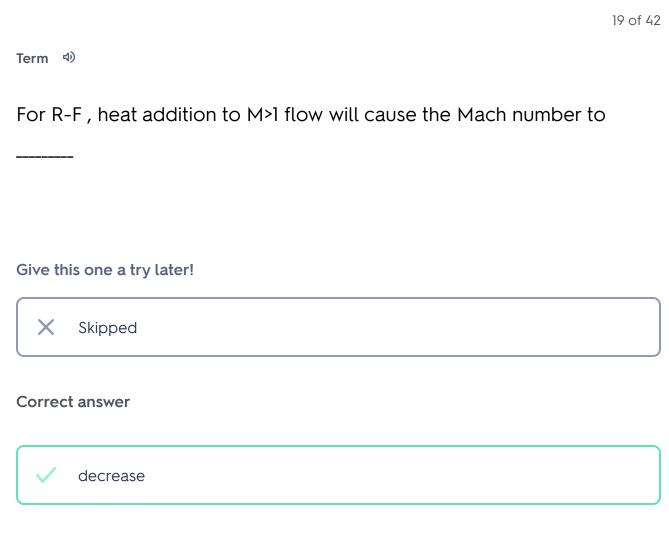**Give this one a try later!**

> ✕   Skipped

Correct answer

> ✓   B-47

Term 🔊

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

Give this one a try later!

> ✕   Skipped

Correct answer

> ✓   accelerate

Term 🔊

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

Give this one a try later!

> ✕   Skipped

Correct answer

> ✓   decrease

Term 🔊

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

_____

Give this one a try later!

✕　Skipped

Correct answer

✓　increase

Term 🔊

The largest human-rated rocket ever was the NASA ___

Give this one a try later!

✕　Skipped

Correct answer

✓	Saturn V

Term 🔊

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

Give this one a try later!

✕	Skipped

Correct answer

✓	B-727

Term 🔊

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

Give this one a try later!

✕	Skipped

Correct answer

✓	choking

Term 🔊

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

Give this one a try later!

✕	Skipped

Correct answer

✓	increase

Term 🔊

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

Give this one a try later!

✕   Skipped

Correct answer

✓   subsonic or supersonic

Term 🔊

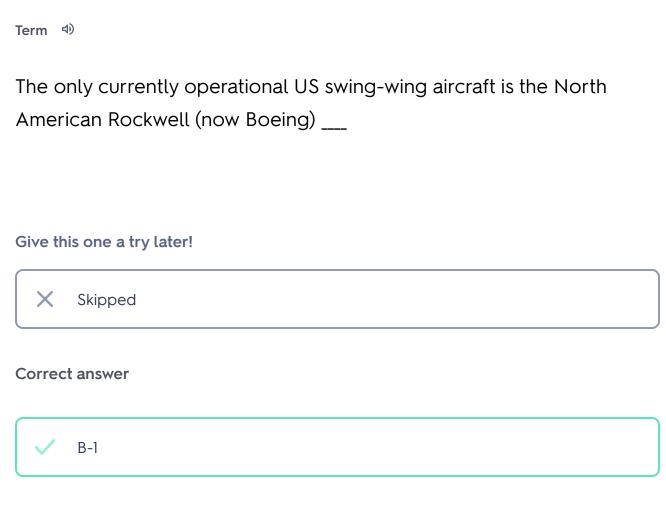# Can friction in F-F drive a M>1 flow toward Mach one?

Give this one a try later!

✕   Skipped

Correct answer

✓   Yes

Term 🔊

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

Give this one a try later!

✕   Skipped

Correct answer

✓   decrease

Term 🔊

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

Give this one a try later!

> ✕   Skipped

Correct answer

> ✓   tau_w (shear stress at a wall)

Term 🔊

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

Give this one a try later!

> ✕   Skipped

Correct answer

> ✓   B-1

Term 🔊

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

Give this one a try later!

✕   Skipped

Correct answer

✓   B-737 MAX

Term 🔊

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

Give this one a try later!

✕   Skipped

Correct answer

> ✓ F-1

Term 🔊

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

Give this one a try later!
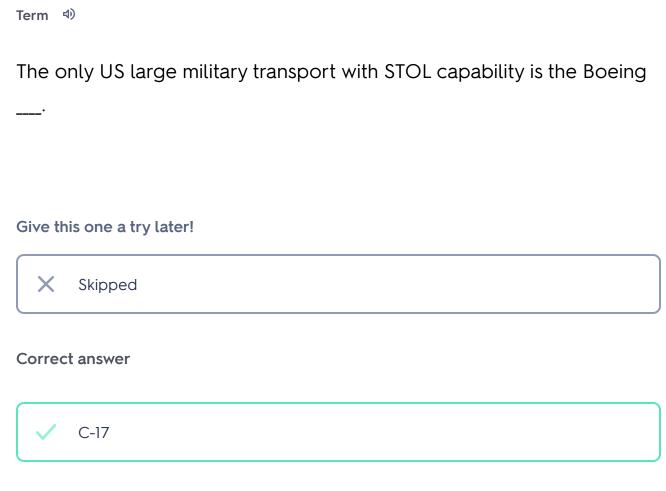
> ✕ Skipped

Correct answer

> ✓ maximum

Term 🔊

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

Give this one a try later!

✕   Skipped

Correct answer

✓   SLS

Term 🔊

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

Give this one a try later!

✕   Skipped

Correct answer

✓   C-17

Term 🔊

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

Give this one a try later!

✕ Skipped

Correct answer

✓ M=1

Term 🔊

The world speed record for a manned aircraft is __.

Give this one a try later!

✕ Skipped

Correct answer

> ✓   X-15

Term 🔊

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

Give this one a try later!

> ✕   Skipped

Correct answer

> ✓   X-31

Term 🔊

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

Give this one a try later!

✕   Skipped

Correct answer

✓   F-86

Term 🔊

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

Give this one a try later!

✕   Skipped

Correct answer

✓   777x

Term 🔊

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

Give this one a try later!

✕   Skipped

Correct answer

✓   X-15

Term 🔊

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

Give this one a try later!

✕   Skipped

Correct answer

✓ Decreases

Term 🔊

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

Give this one a try later!

✕ Skipped

Correct answer

✓ Mollier