

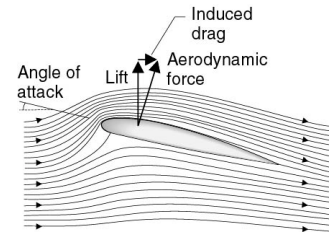
Question:

As you ride in a jet airplane, the clouds are passing you at 600 mph. The air just in front of one of the huge jet engine intake ducts is traveling

1. much faster than 600 mph.
2. much slower than 600 mph.
3. about 600 mph.

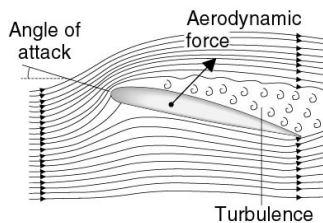
Lifting Airfoil

- Under airfoil
 - Air slows
 - Pressure rise
- Over airfoil
 - Air speeds up
 - Pressure drops
- Lift is present
- Drag is weak



Stalled Airfoil

- Upper airstream detaches from airfoil's top surface.
- Lift is reduced.
- Drag increases.



Propellers

- Propellers are spinning wings.
 - They deflect air toward rear of plane.
- They do work on air, adding energy to it.
- They pump air from front to back of plane.
 - They push the air backward.
 - The air pushes them forward.

Jet Engines

- They pump air toward rear of plane.
- Jet engine is housed in a "duct"
 - Duct resembles a ball with a hole drilled through its middle, from front to back.
 - Engine pumps air from the front of "ball" to its rear.

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