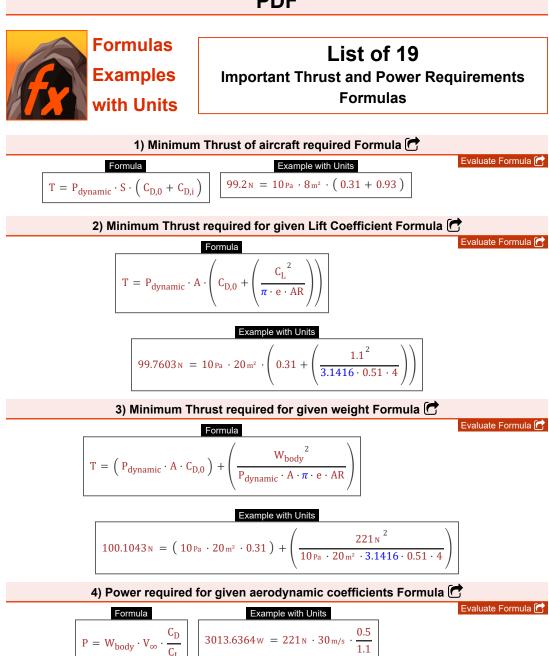
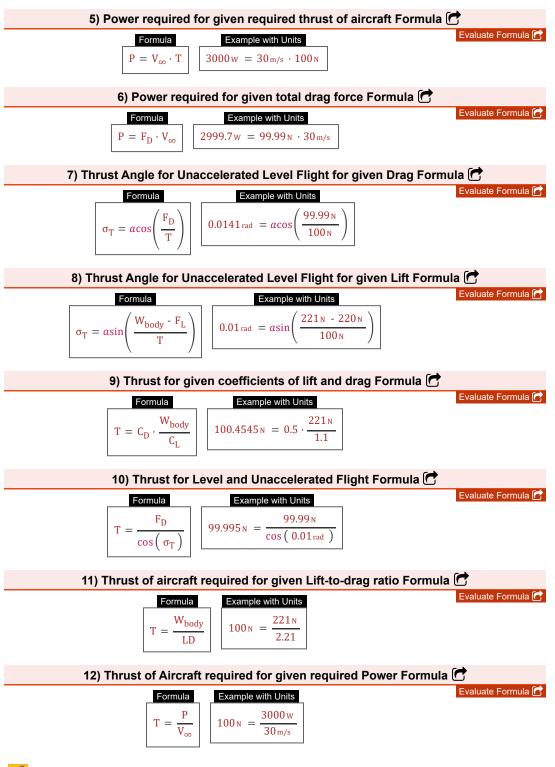
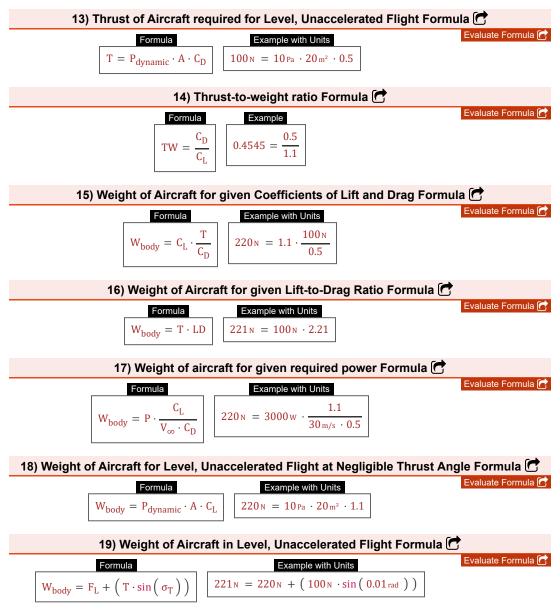
## Important Thrust and Power Requirements Formulas PDF









## Variables used in list of Thrust and Power Requirements Formulas above

- A Area (Square Meter)
- AR Aspect Ratio of a Wing
- C<sub>D</sub> Drag Coefficient
- CD.0 Zero Lift Drag Coefficient
- C<sub>D,i</sub> Coefficient Of Drag Due to Lift
- CL Lift Coefficient
- e Oswald Efficiency Factor
- FD Drag Force (Newton)
- FL Lift Force (Newton)
- LD Lift-to-Drag Ratio
- P Power (Watt)
- Pdynamic Dynamic Pressure (Pascal)
- S Reference Area (Square Meter)
- T Thrust (Newton)
- TW Thrust-to-Weight Ratio
- $V_{\infty}$  Freestream Velocity (Meter per Second)
- Wbody Weight of Body (Newton)
- σ<sub>T</sub> Thrust Angle (Radian)

## Constants, Functions, Measurements used in list of Thrust and Power Requirements Formulas above

- constant(s): pi,
  3.14159265358979323846264338327950288
  Archimedes' constant
- Functions: acos, acos(Number) The inverse cosine function, is the inverse function of the cosine function. It is the function that takes a ratio as an input and returns the angle whose cosine is equal to that ratio.
- Functions: asin, asin(Number) The inverse sine function, is a trigonometric function that takes a ratio of two sides of a right triangle and outputs the angle opposite the side with the given ratio.
- Functions: cos, cos(Angle) Cosine of an angle is the ratio of the side adjacent to the angle to the hypotenuse of the triangle.
- Functions: sin, sin(Angle) Sine is a trigonometric function that describes the ratio of the length of the opposite side of a right triangle to the length of the hypotenuse.
- Measurement: Area in Square Meter (m<sup>2</sup>) Area Unit Conversion
- Measurement: Pressure in Pascal (Pa)
  Pressure Unit Conversion
- Measurement: Speed in Meter per Second (m/s) Speed Unit Conversion
- Measurement: Power in Watt (W) Power Unit Conversion
- Measurement: Force in Newton (N) Force Unit Conversion
- Measurement: Angle in Radian (rad) Angle Unit Conversion

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