

# Chapter 1

## Basic Aerodynamics

1. What are the four aerodynamic forces?

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2. Consider an aircraft flying a straight path in a steady descent. How do the four forces relate to each other?

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3. What are the four primary control inputs of an aircraft?

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4. If an airplane stalls at a  $20^\circ$  angle of attack in level flight, what angle of attack will it stall in a  $60^\circ$  bank?

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5. Why does P-factor act in the opposite direction in Russian-built aircraft?

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6. Is the way an airplane turns more like a car or bicycle and why?

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7. How is a spin different from a spiral dive?

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