Assignment 05

The due date for submitting the assignment is passed. As per our records you have not submitted this assignment.

1) For a conventional aircraft the sign of $C_{m}$ and $C_{n}$ are respectively:

- $+$ and $-$
- $-$ and $+$
- $+$ and $+$
- $-$ and $-$

No, the answer is incorrect. Score 0
Accepted Answers:

2) For a conventional aircraft the sign of $C_{m}$ and $C_{n}$ are respectively:

- $+$ and $-$
- $-$ and $+$
- $+$ and $+$
- $-$ and $-$

No, the answer is incorrect. Score 0
Accepted Answers:

3) The aircraft body axis velocity component in m/s is given by $[x, y, z] = [10, 5, 0]$. The angle of attack $(\alpha)$ in degrees will be:

- $-1.14$
- $-1.14$
- $-1.53$
- $-0.53$

No, the answer is incorrect. Score 0
Accepted Answers:

4) The aircraft body axis velocity component in m/s is given by $[x, y, z] = [10, 5, 0]$. The sideslip angle $(\beta)$ in degrees will be:

- $-3.18$
- $-2.39$
- $-3.68$
- $-0.26$

No, the answer is incorrect. Score 0
Accepted Answers:

5) The aircraft body axis velocity component in m/s is given by $[x, y, z] = [90, 0, 0]$ at steady-straight and level flight. The flight path angle $(\gamma)$ in degrees. 1 point will be:

- $0.00$
- $1.29$
- $4.44$
- $3.18$

No, the answer is incorrect. Score 0
Accepted Answers:

6) The aircraft body axis velocity component in m/s is given by $[x, y, z] = [90, 0, 0]$ at steady-straight and level flight. The resultant velocity in m/s will be:

- $90.00$
- $90.00$
- $90.44$
- $90.14$

No, the answer is incorrect. Score 0
Accepted Answers:

7) If the airplane pitches in the opposite direction of the roll, then this is called:

- aileron roll
- aileron pitch
- elevator roll
- elevator pitch

No, the answer is incorrect. Score 0
Accepted Answers:

8) An aircraft is flying in the north direction at a velocity of 500m/s under cross wind from the west to east of 3m/s. If the value of $C_{m}$ = $0.0016\text{N/m}$ and $C_{n} = -0.0035\text{N/m}$, where $\alpha$ sideslip angle and $\beta$ is the rudder deflection. The sideslip angle in degrees given will be:

- $-1.86$
- $-2.39$
- $-4.68$
- $-0.00$

No, the answer is incorrect. Score 0
Accepted Answers:

9) An aircraft is flying in the north direction at a velocity of 500m/s under cross wind from the west to east of 3m/s. If the value of $C_{m}$ = $0.0016\text{N/m}$ and $C_{n} = -0.0035\text{N/m}$, where $\alpha$ sideslip angle and $\beta$ is the rudder deflection. The rudder deflection in degrees given by the pilot in the case will be:

- $-1.29$
- $-0.43$
- $-4.29$
- $0.00$

No, the answer is incorrect. Score 0
Accepted Answers:

10) An aircraft is flying in the north direction at a velocity of 500m/s under cross wind from the west to east of 3m/s. If the value of $C_{m}$ = $0.0016\text{N/m}$ and $C_{n} = -0.0035\text{N/m}$, where $\alpha$ sideslip angle and $\beta$ is the rudder deflection. The rudder deflection in degrees given by the pilot in the case will be:

- $-1.29$
- $-0.43$
- $-4.29$
- $0.00$

No, the answer is incorrect. Score 0
Accepted Answers: