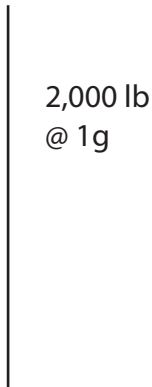


LAZY EIGHT FORCE VECTOR ANALYSIS

POINT 1
(PRIOR TO PITCH UP)



POINT 2

Total Lift
15 deg AOB
3,000 lb
@ 1.5g

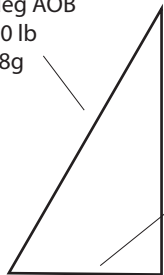


Vertical Component of Lift
15 deg AOB
Cosine 15 deg x 3,000 lb
@ 1.5g = 0.97 x 3000
= 2,910 lb

Horizontal Component of Lift
15 deg AOB
Sine 15 deg x 3,000 lb
@ 1.5g = 0.26 x 3000
= 780 lb

POINT 3

Total Lift
30 deg AOB
1,600 lb
@ 0.8g



Vertical Component of Lift
30 deg AOB
Cosine 30 deg x 1,600 lb
@ 0.8g = 0.87 x 1,600
= 1,392 lb

Horizontal Component of Lift
30 deg AOB
Sine 30 deg x 1,600 lb
@ 0.8g = 0.5 x 1,600
= 800 lb

POINT 4
FLOWN AT 15 DEG AOB
RESULTING IN ASYMMETRY

Total Lift
15 deg AOB
1,600 lb
@ 0.8g



Vertical Component of Lift
15 deg AOB
Cosine 15 deg x 1,600 lb
@ 0.8g = 0.97 x 1,600
= 1,599 lb

Horizontal Component of Lift
15 deg AOB
Sine 15 deg x 1,600 lb
@ 0.8g = 0.26 x 1,600
= 416 lb

POINT 4
BANK MAINTAINED
RESULTING IN SYMMETRY

Total Lift
30 deg AOB
1,600 lb
@ 0.8g



Vertical Component of Lift
30 deg AOB
Cosine 30 deg x 1,600 lb
@ 0.8g = 0.87 x 1,600
= 1,392 lb

Horizontal Component of Lift
30 deg AOB
Sine 30 deg x 1,600 lb
@ 0.8g = 0.5 x 1,600
= 800 lb