

Name _____

Date _____

Instructor _____

Aircraft _____

Performance/Specifications:

Engine Make/Model: _____

Propeller Make/Model: _____

Define Fixed-Pitch Propeller: _____

Define Constant Speed Propeller: _____

Max HP: _____ @ _____ **RPM**

Empty Wt.: _____

Max Gross Wt: _____

Useful Load: _____

Fuel Type: _____

Oil Specification: _____ **Capacity** _____ **Qts.**

Club Oil Min / Max: Min _____ **Qts.** / Max _____ **Qts.**

Fuel System/Fuel Pump use: _____

V speeds:

Fill in the following V speeds and define:

Vx _____

Vy _____

Va _____

Vfe _____

Optimal engine out glide speed: _____ **kts.**

Max Demonstrated Crosswind Component _____ **kts.**

Electrical system:

Does the ammeter indicate the battery discharge? Yes / No

Weight and Balance Problem:

Calculate the T/O weight and balance:

	Wt.	ARM	Moment
Basic empty wt:	_____	80.1	_____
Oil (7.5lbs / gal)	_____	34.1	_____
Pilot and front pax:	350 lbs	85.5	_____
Passengers 2 nd Row:	0	120.2	_____
Passengers 3 rd Row:	0	155.7	_____
Fuel: 84 Gal:	_____	95	_____
Baggage Forward:	20 lbs	42	_____
Baggage Aft:	100 lbs	178.7	_____
Totals:	_____ wt		_____ moment
Total Moment=	_____ ÷	_____ lbs. =	_____ inches = CG

Aircraft (is) / (is not) within the Max Gross Weight and C/G limits of Normal Category.

Aircraft (is) / (is not) within the Max Gross Weight and C/G limits of Utility Category.

Aircraft Systems:

Describe Pitot/Static System and associated instruments:

Describe Vacuum System and associated instruments:

When loading the aircraft with 6 passengers in what order should you load the seats and why?

Miscellaneous Discussion (as directed by Instructor):

Reviewed and corrected to 100% by: _____