

GROUND REVIEW EXAM

PA28-140 PIPER CHEROKEE – N8724N (TAA)

References: POH ~ Lycoming Operator's Manual ~ Pensacola Air Checklists ~ Garmin Manual

Name: _____ Date Completed: _____ Hrs: ____ TT / ____ PIC / ____ PA28

Instructor: _____ CFI#: _____ Exp: _____

Aircraft Operating Speeds (MPH)

Normal Rotation (V_R)		Stall, Landing Config (V_{SO})	
Best Angle of Climb (V_X)		Stall, Clean Config (V_S)	
Best Rate of Climb (V_Y)		Design Maneuvering @ Max GW (V_A)	
Max Flap Extended (V_{FE})		Max Structural Cruising (V_{NO})	
Best Glide (V_G)		Never Exceed (V_{NE})	

General Aircraft Information

Type/Make/Model of Engine: _____ Type of Propeller: Fixed or Variable Pitch
 Gyro pump is digital or engine-drive or N/A. AP engagement airspd is ____ IAS (min) and ____ IAS (max)
 Total fuel capacity ____ gal. Useable fuel ____ gal. Fuel system type is Carburetor or Fuel Injection
 Number and location of fuel sumps _____
 Fill the tanks to the filler necks to obtain ____ gal. Normal fuel pres operating range is _____
 Norm oil temp range is _____. Norm oil pres range is _____ Oil system capacity is ____ Qts.
 Electrical system: ____ Volts / Alternator Output ____ Amps. Magnetos are checked at ____ RPM.
 Pressing ____ button will establish level flight. ESP can engage by _____
 Disengage AP dur appr @ ____' AGL and ____' AGL (other ops). Pressing GA will / will not disconnect AP.

State the following critical action procedures:

1. ENG FIRE DURING START: _____

2. ENG FAILURE DURING FLIGHT: _____

3. FORCED LANDING: _____

4. LOSS OF FUEL PRESSURE: _____
5. SPIN RECOVERY: _____
6. AUTOPILOT MALFUNCTION: _____

Performance Computations

Assumptions: You (200#), one adult (200#), baggage (100#), full tanks

Weather Conditions: KPNS 131553Z 09010G18KT 10SM SKC 30/25 A2992

Max Gross Weight		Gross Weight	
Max Baggage Allowed		Field Elevation	
Basic Empty Weight	1324	Pressure Altitude	
Useful Load		Density Altitude	

1. What is the takeoff distance to clear a 50' obstacle? _____
2. What is the landing distance to clear a 50' obstacle? _____
3. Range & Fuel Burn @ 65% / Fuel @ Tabs / NO Resv / 5000' / Std Cond is _____ SM _____ GPH
4. True Airspeed and RPM @ 75% / 4000' / Std Cond / Max GW is _____ MPH, _____ RPM

<u>Item</u>	<u>Weight</u>	<u>Arm</u>	<u>Moment</u>
Basic Empty Weight	1324		118931
Pilot and Front Passengers			
Passengers, Aft (Rear Seat)			
Fuel			
Baggage* Area 1			
Baggage* Area 2			
Total Loaded Airplane			

The center of gravity (CG) of this flight is _____ inches aft of the datum line and IS / IS NOT within limits.

*See AFM Page 5-11

