

Colorado Soaring Association
Pre-Solo quiz

1. You're on the takeoff roll on 19R when, just as the beautiful yellow glider with the amazing bucking horse logo on the tail breaks ground, the tow rope goes slack and the tug veers off the runway to the left. You should:
 - a. Deploy the spoilers and pull back hard on the handle to engage the brakes.
 - b. Pull the release, open the spoilers and steer off the runway to the right.
 - c. Stay behind the tug until you both stop.
 - d. Return to the north end of the runway
 - e. Pull the release, open the spoilers and steer off the runway to the left.

2. The winds are southeast at 15 kts. You've departed 19R in the Solitaire, and are passing thru 200', when the tug drops the tow rope and proceeds straight ahead without you. You should [have planned to]:
 - a. Initiate a 45 degree right bank and slow to 35 mph indicated.
 - b. Initiate a 45 degree right bank and slow to 45 mph indicated.
 - c. Initiate a 45 degree left bank and slow to 35 mph indicated.
 - d. Initiate a 45 left bank and slow to 45 mph indicated.
 - e. Open the spoilers and land straight ahead in the pasture.

3. Its your first solo. Winds were 180 at 10 when you launched and you got off at 8000' and have had 10 minutes of scary dead silence from the back seat. You get back to the pattern and set up for 19R at 1000' but then notice that the tail of the sock at the gazebo is pointing straight east. You:
 - a. Land where you took off so you don't confuse everybody else.
 - b. Do a 360 to kill some altitude, then land on runway 9 being very careful not to land long, so you're going with the wind.
 - c. Make an abbreviated pattern for 27, staying in tight.
 - d. Cut across the field to the windmill and set up a long final for 27.
 - e. Land in the field across County Rd 7.

4. What procedures are used to minimize wear on gliders when ground towing?

5. What is the "official, on the test" signal to take-up slack without a wing runner? (We'll assume that you don't have a radio)
 - a. Wag the rudder.
 - b. Open the dive brakes.
 - c. The tug wags his rudder.
 - d. Close the canopy.
 - e. Open the canopy and wave at the tug.

6. What does it mean when the tuggie "fans" his rudder 100' off the ground on takeoff?

7. Who is responsible for determining if a glider is airworthy prior to flight?
8. What airspaces are above Owl Canyon and what are the VFR minimums?
9. You've been flying with a dimensionally challenged (fat) instructor. What kind of differences should you expect in the way the glider handles on your first solo?
10. List the following for the ship you intend to solo:
 - a. Best L/D
 - b. Minimum sink
 - c. V_a (or max tow speed, whichever is less)
 - d. Stall airspeed
 - e. Minimum and maximum solo weights
11. Calculate the Weight and Balance for Solo flight. Do you need Ballast for your solo flight?
12. What are the limitations (both FAA and CSA) on your solo pilot privileges at Owl Canyon?"
13. What documents must be carried on the glider when you solo? What documents must the pilot-in-command carry with them?
14. Where are the windsocks at the glider-port?

Document control

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