Phase 3 - Class 10 Lineup and Wait   **AIM 5-2-4**

> **Note:** When you announce to the tower you are ready for takeoff the tower may respond with "Cessna 123 XRAY *Line Up and Wait* Runway 2 3" - this is a clearance and should be read back <u>exactly</u> to the controller. Then, with extreme caution the pilot may taxi to the center line of runway 23 and <u>wait </u>for a clearance to take off. If you do not get the clearance to take off within a reasonable period of time notify the tower (ATC).

Phase 3 - Class 10 Emergency Air Traffic Rules   **91.139**

> **Note:** ATC may issue an emergency notice in the form of a NOTAM (Notice to Airmen) and / or by **direct communication** and you must comply with its directive. For instance - when the attacks were in progress on Sept. 11, 2001, ATC issued the notice - "all aircraft land immediately".

Exercises: Plotting True Course / Magnetic Course Text 9-8, 9-11

> **Note:** Get in the habit of using this **standard** format to report your results:
> (This format will change a little as we add other elements.)

TC	True Course	Distance
VAR	Magnetic Variation	
MC	Magnetic Course	

a.   Plot a course from Pueblo airport (KPUB) west to Fremont County airport (1V6). Determine magnetic course.

b.   Plot a course from Fremont County airport (1V6) to Meadowlake airport (KFLY). Determine true course and distance.

c.   Plot a course from Meadowlake airport (KFLY) to Centennial airport (KAPA). Determine magnetic course.

Exercises: Solving Time / Speed / Distance Problems
> **Note:** Solve the following problems using the **algebraic method** and then use the E6B. You will be expected to use the E6B during your Practical Exam (flight test). There are many examples in the E6B booklet supplied with your E6B.

a. Ground Speed = 125 kts | Distance = 87 nm | Time = ?? min; also, = ?? hours

b. Distance = 22 nm | Time = 15 min | Ground Speed = ?? kts; also, = ?? mph

c. Distance = [1V6 to KFLY] | Ground speed = 89 kts | Time = ?? min and secs

Note the difference in accuracy between the algebraic method and the E6B.