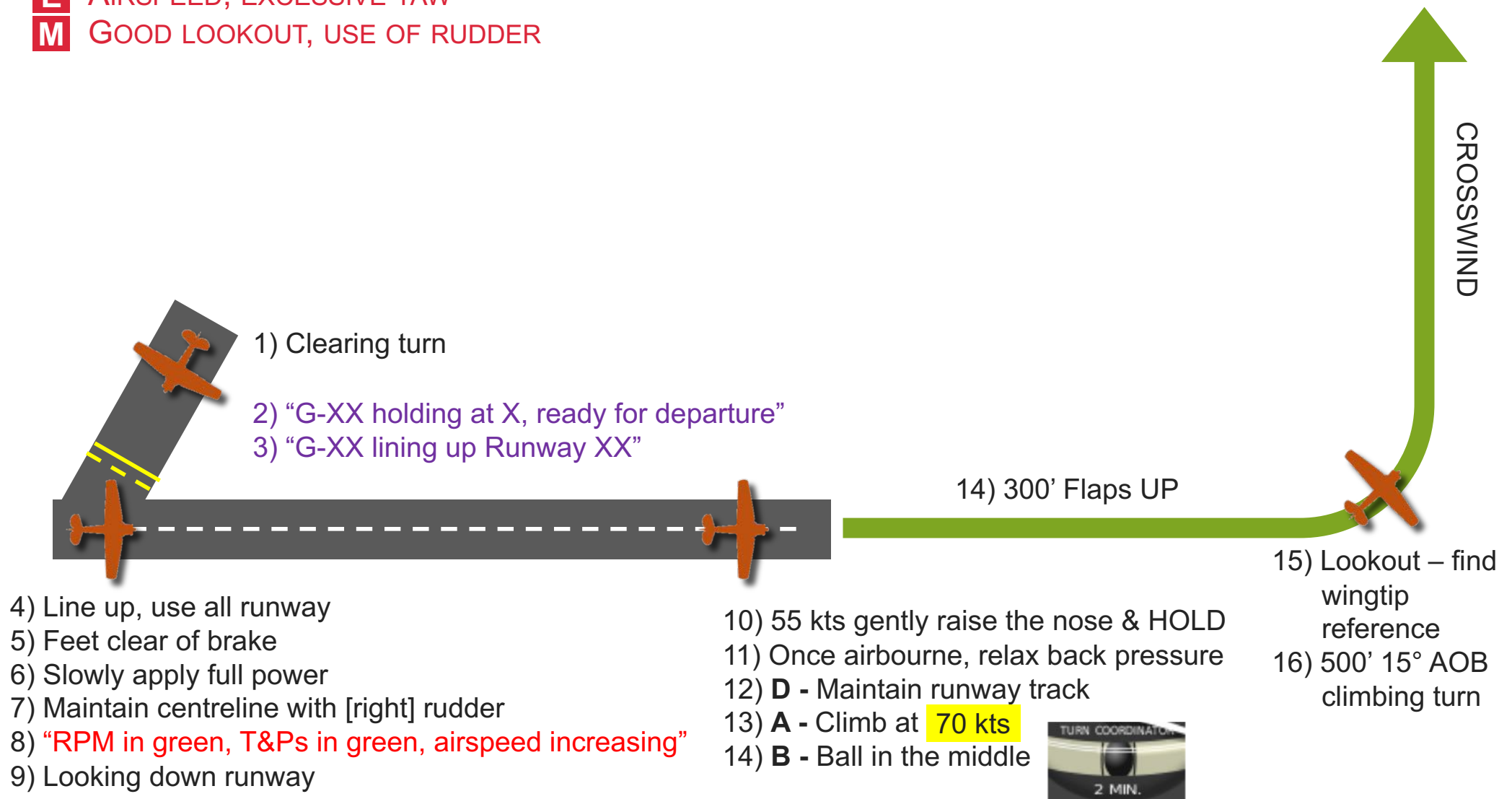


Exercise 12 & 13 - Circuits

Ex 12 (PART 1) – TAKEOFF AND CLIMB

AIM: LEARN HOW TO TAKE OFF AND FLY A NORMAL CIRCUIT TO X WIND POSITION

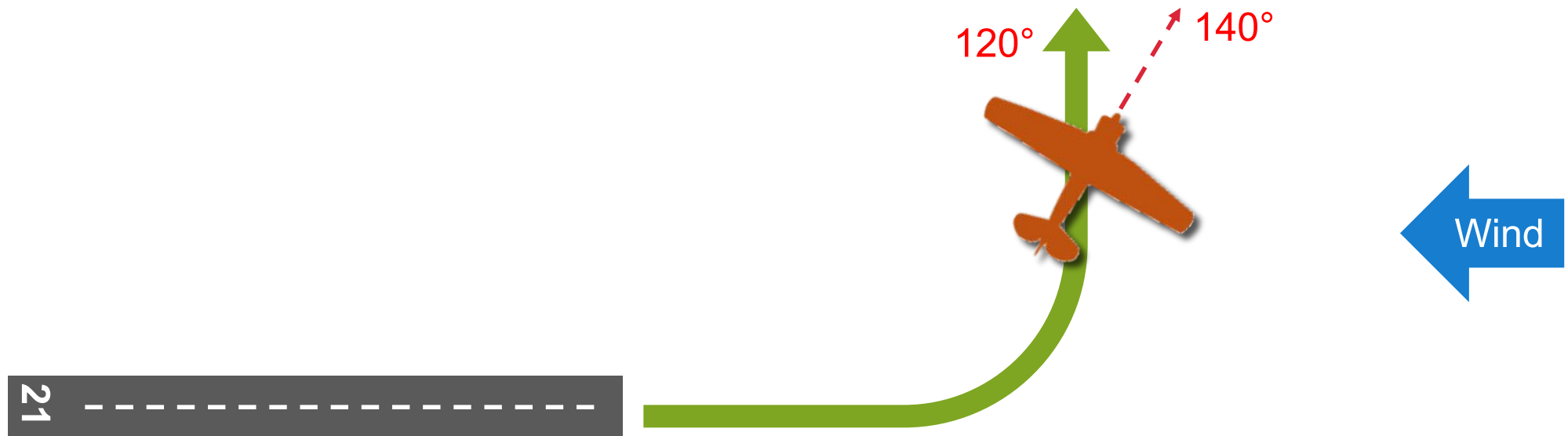
- T** OTHER AIRCRAFT
- E** AIRSPEED, EXCESSIVE YAW
- M** GOOD LOOKOUT, USE OF RUDDER



Ex 12 (PART 1) – CROSSWIND

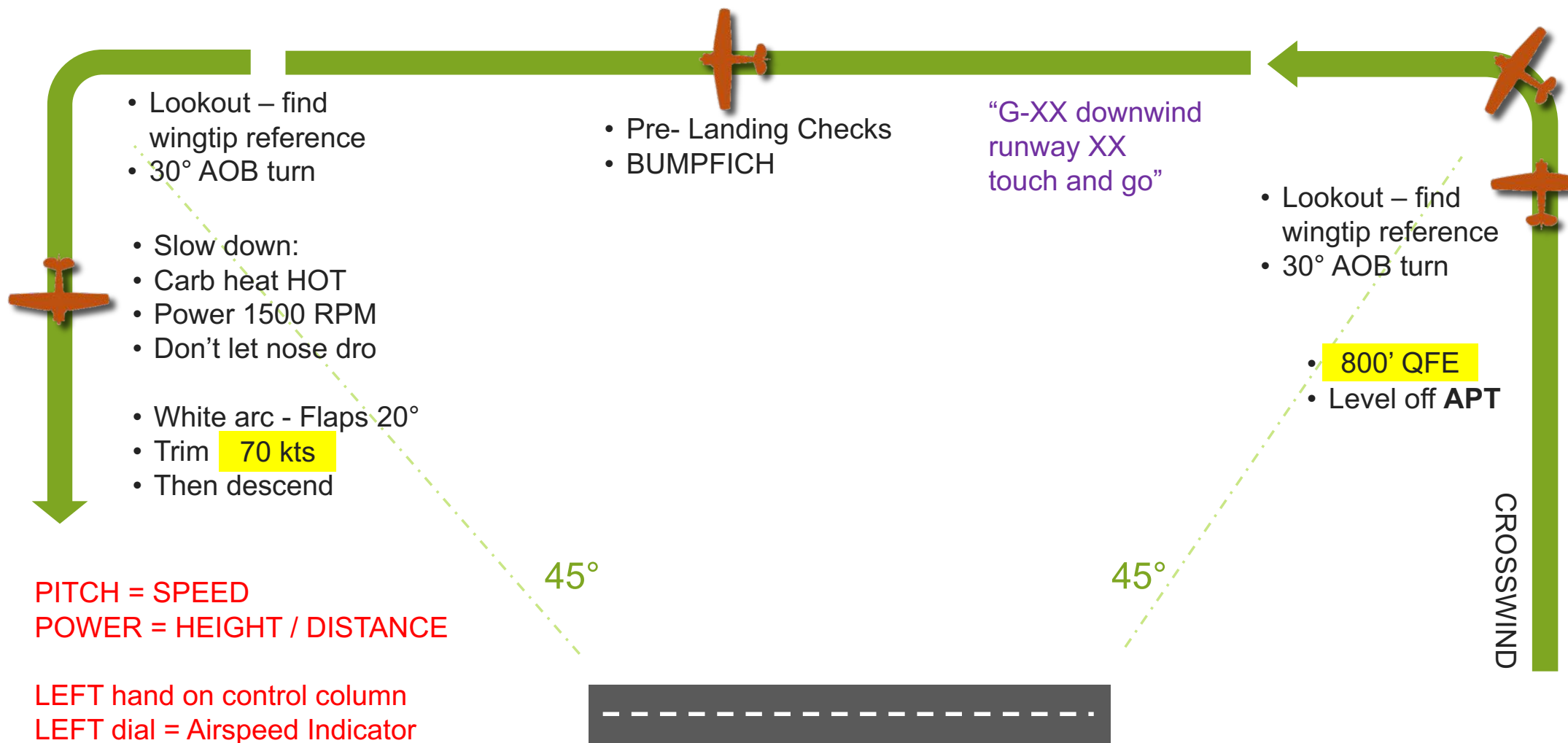
AIM: LEARN HOW TO TAKE OFF AND FLY A NORMAL CIRCUIT TO X WIND POSITION

- WIND AT >500FT IS OFTEN 2X WIND SPEED GIVEN BY TOWER
- 10 KNOTS ON NOSE ON GROUND = 20 KNOTS CROSSWIND ON CROSSWIND & BASE
- 20 KNOTS CROSSWIND AT 70 KNOTS CLIMB SPEED = 18° CRAB ANGLE NEEDED



Ex 12 (PART 1) – CROSSWIND – DOWNWIND - BASE

AIM: LEARN HOW TO FLY FROM X WIND POSITION TO BASE



DOWNWIND PRE-LANDING CHECKS

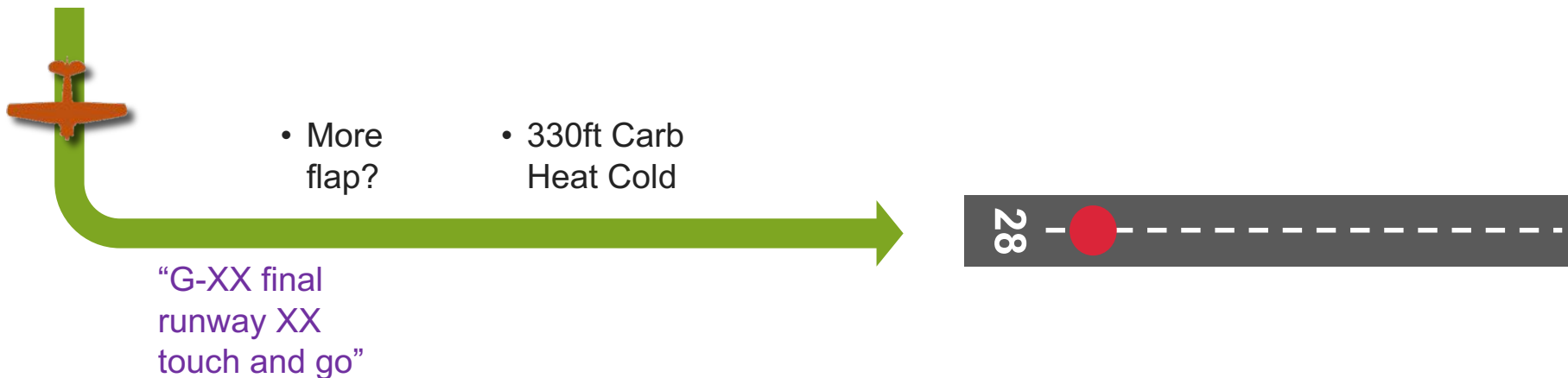
BUMPFICH

B	Brakes	<ul style="list-style-type: none">• Parking break is off• Pressure in the toe breaks
U	Undercarriage	<ul style="list-style-type: none">• Undercarriage is down and locked• Landing light is on
M	Mixture	<ul style="list-style-type: none">• Mixture is rich• Magnetos are on both
P	Props	<ul style="list-style-type: none">• Props are fine / fixed
F	Fuel	<ul style="list-style-type: none">• Fuel tap is on• Fuel pump is on• Fuel quantity is sufficient• Fuel pressure is in the green
I	Instruments	<ul style="list-style-type: none">• DI is aligned to the compass• QFE is set
T	T's & P's	<ul style="list-style-type: none">• Engine T&Ps are in the green
C	Carb Heat	<ul style="list-style-type: none">• De-ice the carburettor
H	Hatches / Harnesses	<ul style="list-style-type: none">• Hatches and harnesses are secure

Ex 12 (PART 1) –BASE – FINAL APPROACH

AIM: LEARN HOW TO FLY BASE TO SET UP FINAL APPROACH

- Lookout
- Turn onto centre line
- Approx 500-600ft



Runway in same position in window



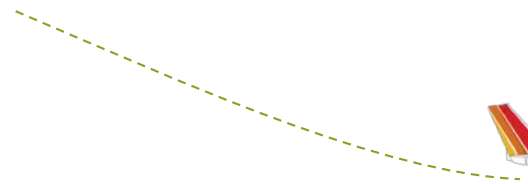
PITCH = SPEED
POWER = HEIGHT / DISTANCE

Ex 13 (PART 2) – LANDING

AIM: LEARN HOW TO FLY BASE TO SET UP FINAL APPROACH



- 70 kts
- Full flap
- Trimmed



- Smoothly close throttle
- Hold nose from dropping
- Round out to S&L attitude
- Gradually raise nose to horizon
- Throttle FULLY closed
- Progressive back pressure to keep nose on horizon as aircraft sinks



ADVANCED CIRCUITS

- CROSS WIND TAKEOFF
 - ABANDONED TAKE OFF
 - EFATO
 - GO AROUND
-
- CROSS WIND LANDING
 - FLAPLESS LANDING
 - GLIDE APPROACH LANDING