SCALE HELICOPTER

FLIGHT MANEUVERS

AMA 518

ABBREVIATIONS AND ACRONYMS

G	Ground
m	Meter
ft.	Feet
MPH	Miles per hour

LIST OF MANEUVERS

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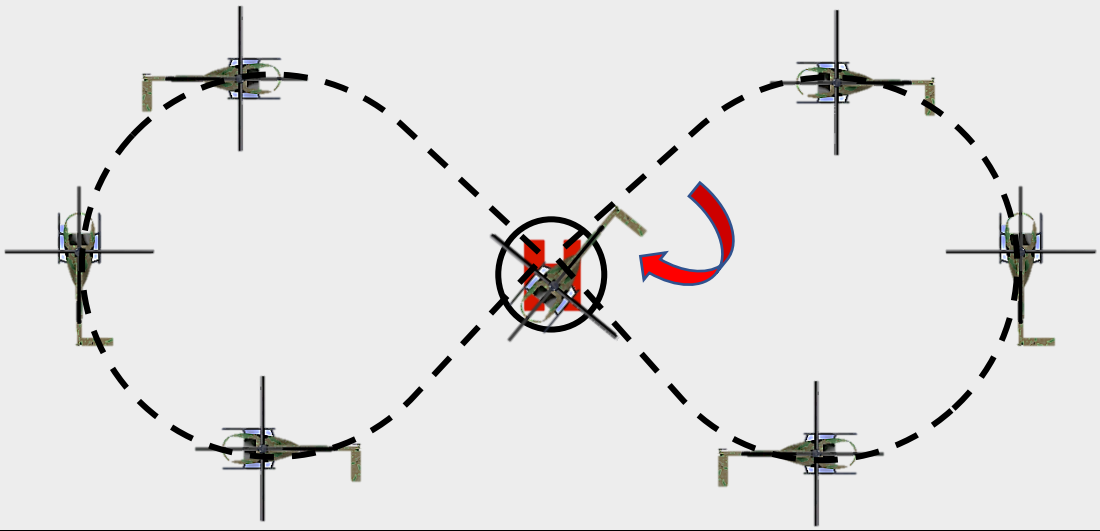
FLIGHT MANEUVER # 01	LAZY 8

TOP VIEW



SIDE VIEW

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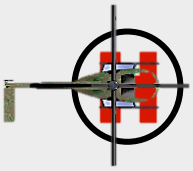
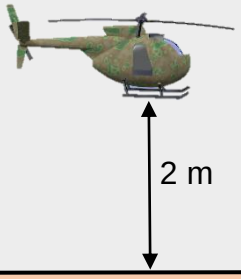
SPEED	
DURATION	
ALTITUDE	
NOTES	NO CHANGE IN SPEED-ALTITUDE

FLIGHT MANEUVER # 02	HOVERING AUTO

TOP VIEW



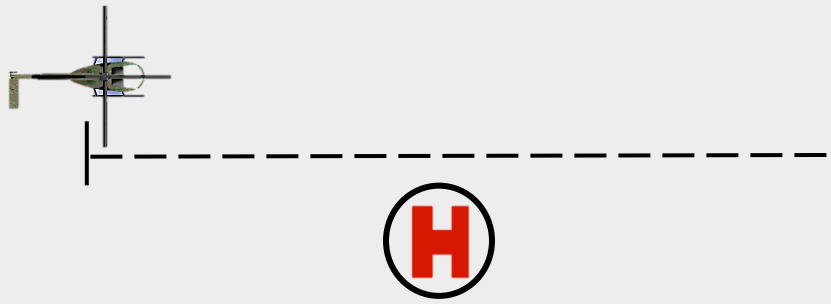
SIDE VIEW



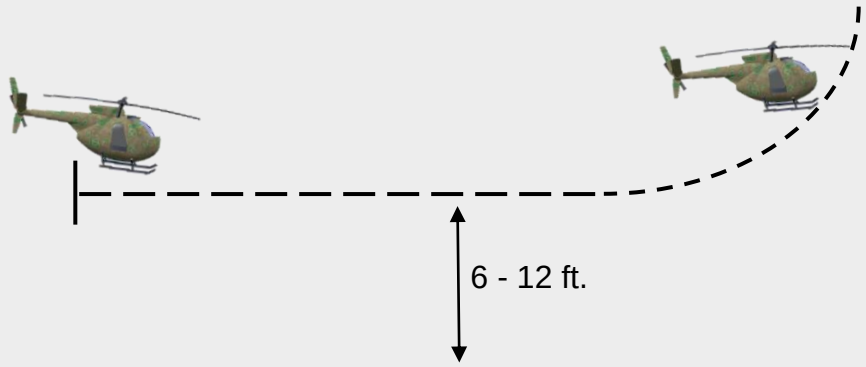
SPEED	
DURATION	
ALTITUDE	6 Feet
NOTES	POWER OFF

FLIGHT MANEUVER # 03	STALL TURN

TOP VIEW



SIDE VIEW



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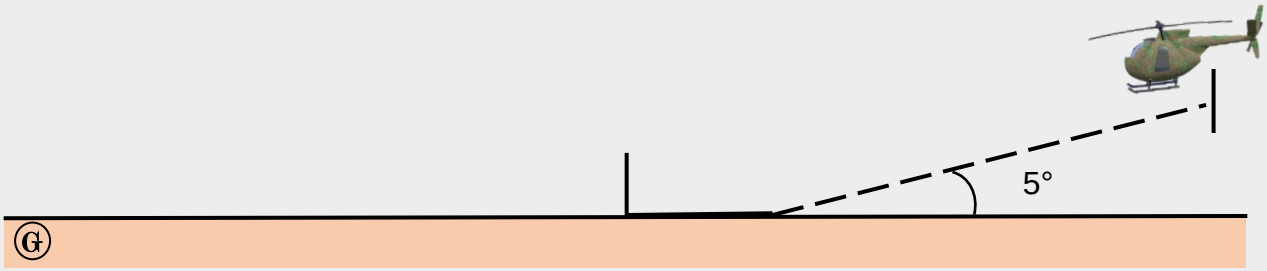
SPEED	20 MPH
DURATION	
ALTITUDE	6-12 FT START
NOTES	

FLIGHT MANEUVER # 04	RUN ON LANDING

TOP VIEW

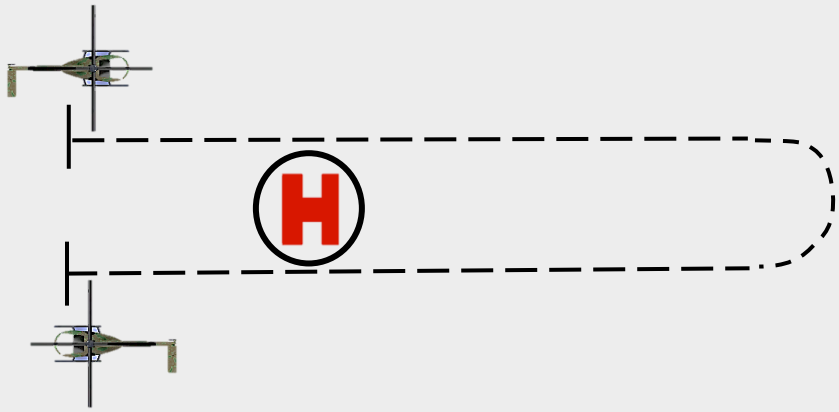
SIDE VIEW



SPEED	WALKING
DURATION	25 METERS
ALTITUDE	
NOTES	MODEL SHOULD SLIDE AFTER REACHING THE
	GROUND

FLIGHT MANEUVER # 05	RETURN TO TARGET

TOP VIEW



SIDE VIEW

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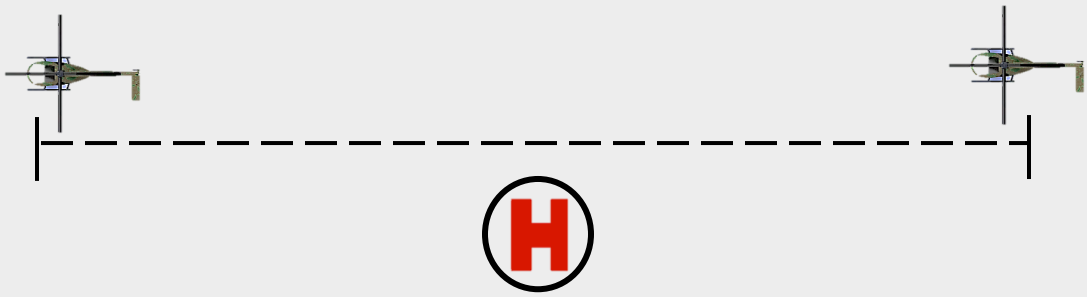
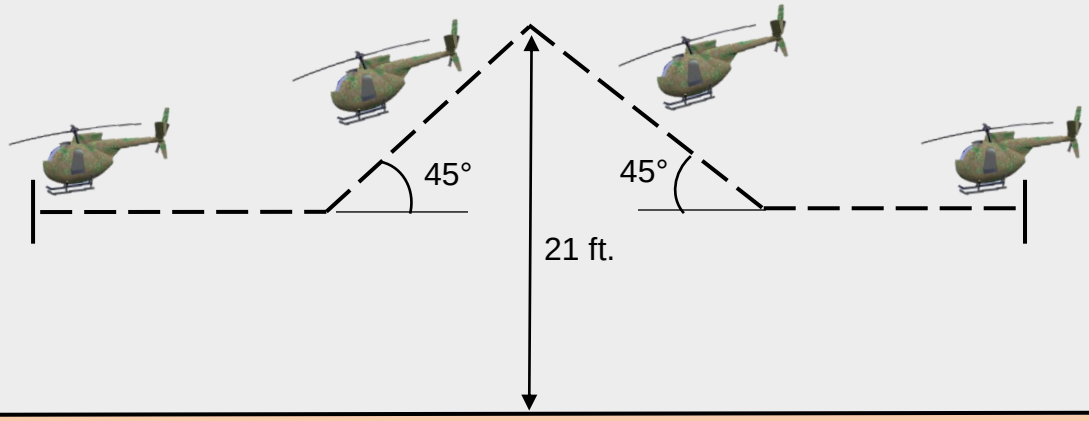
SPEED	20 MPH
DURATION	
ALTITUDE	6-12 FT START
NOTES	

FLIGHT MANEUVER # 06	PUSH OVER

TOP VIEW



SIDE VIEW



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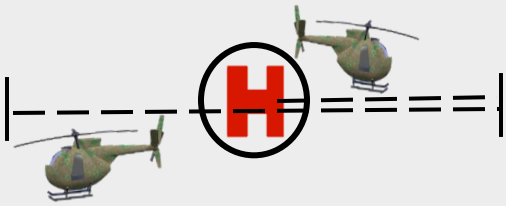
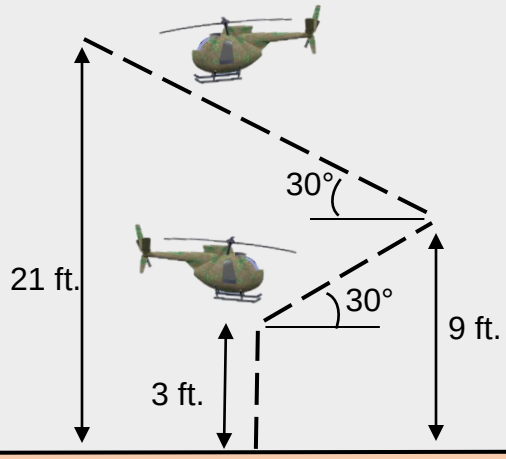
SPEED	20 MPH
DURATION	
ALTITUDE	START 6 FT PEAK 21 FT FINISH 6 FT
NOTES	

FLIGHT MANEUVER # 07	OBSTRUCTION TAKEOFF

TOP VIEW



SIDE VIEW



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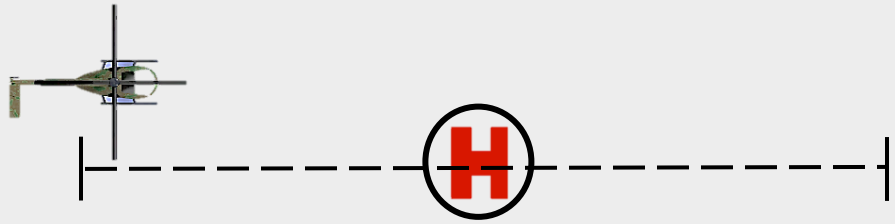
SPEED	WALKING
DURATION	
ALTITUDE	3 FT, 9 FT, 21 FT
NOTES	FINISH AT 21 FT

FLIGHT MANEUVER # 08	LOW-SLOW FLY BY

TOP VIEW



SIDE VIEW

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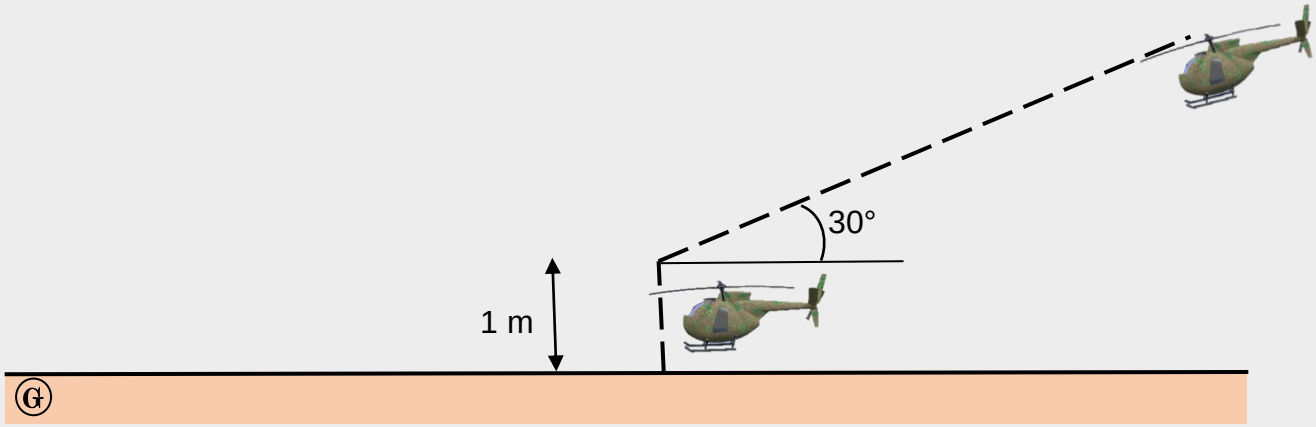
SPEED	FAST WALK
DURATION	
ALTITUDE	6 FT-2 METERS
NOTES	NO CHANGE IN ALTITUDE,
	PARALLEL TO FLIGHT LINE
	NO CHANGE IN SPEED

FLIGHT MANEUVER # 09	NORMAL LANDING

TOP VIEW

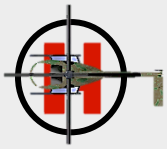
SIDE VIEW



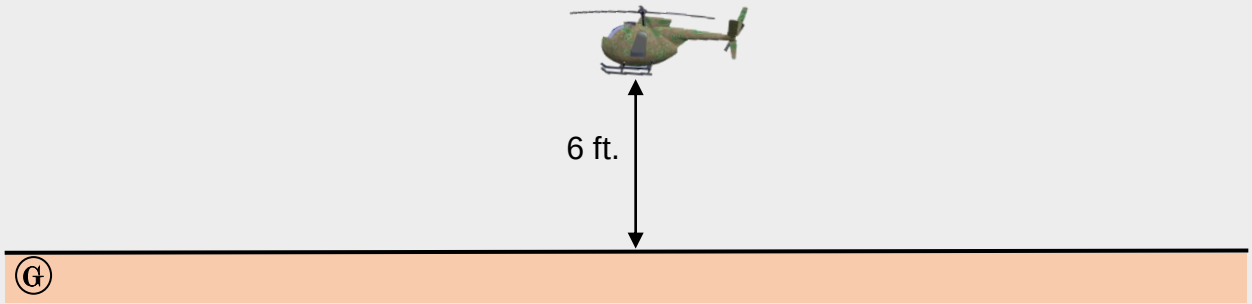
SPEED	FAST WALK
DURATION	25 METERS
ALTITUDE	
NOTES	

FLIGHT MANEUVER # 10	POSE IN HOVER

TOP VIEW



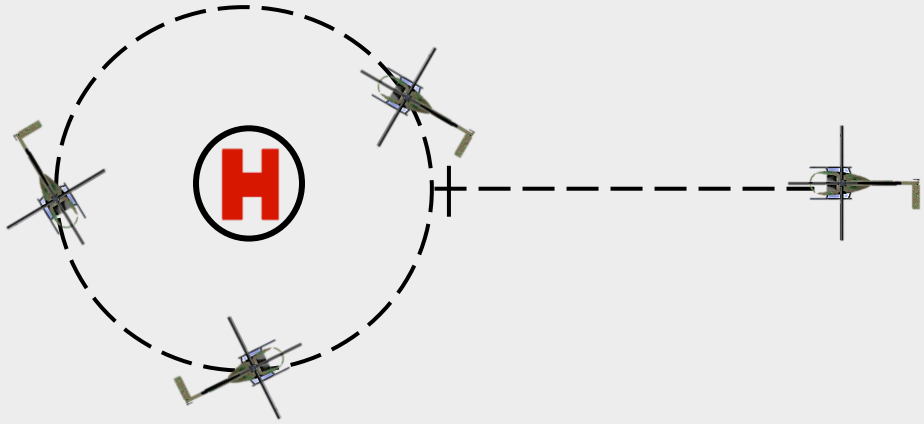
SIDE VIEW



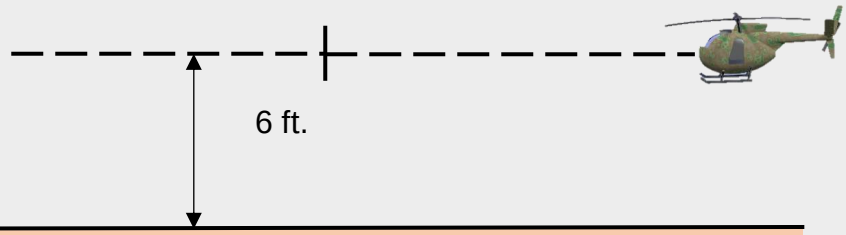
SPEED	NONE
DURATION	15 SECONDS
ALTITUDE	6 FT
NOTES	NO MOVEMENT

FLIGHT MANEUVER # 11	PEDAL TURN

TOP VIEW



SIDE VIEW



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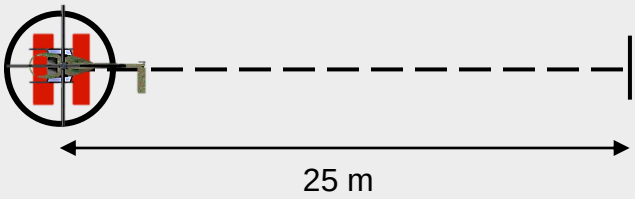
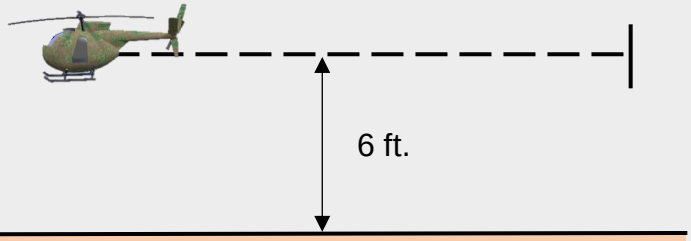
SPEED	
DURATION	
ALTITUDE	6 FT
NOTES	NO CHANGE OF ALTITUDE OR SPEED

FLIGHT MANEUVER # 12	QUICK STOP

TOP VIEW



SIDE VIEW



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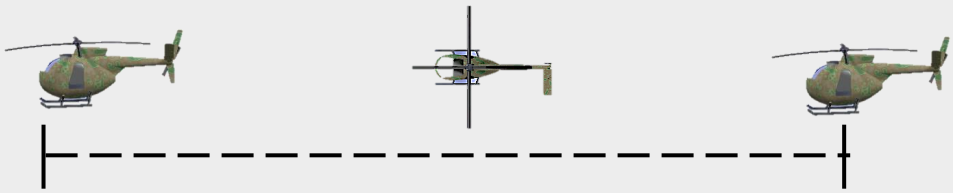
SPEED	WALKING
DURATION	25 METERS
ALTITUDE	6 FT- 2 METERS
NOTES	HELI TRAVELS AT WALKING SPEED AND STOP
	QUICKLY BECAUSE OF HAZARD WITH NO CHANGE IN
	ALTITUDE

FLIGHT MANEUVER # 13	ROLL

TOP VIEW

SIDE VIEW



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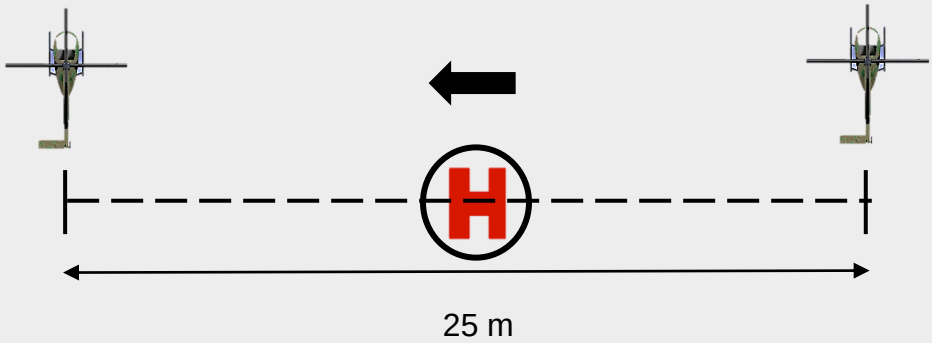
SPEED	
DURATION	
ALTITUDE	SAFE
NOTES	NO CHANGE IN ALTITUDE

FLIGHT MANEUVER # 14	SIDE WAYS FLYBY

TOP VIEW



SIDE VIEW

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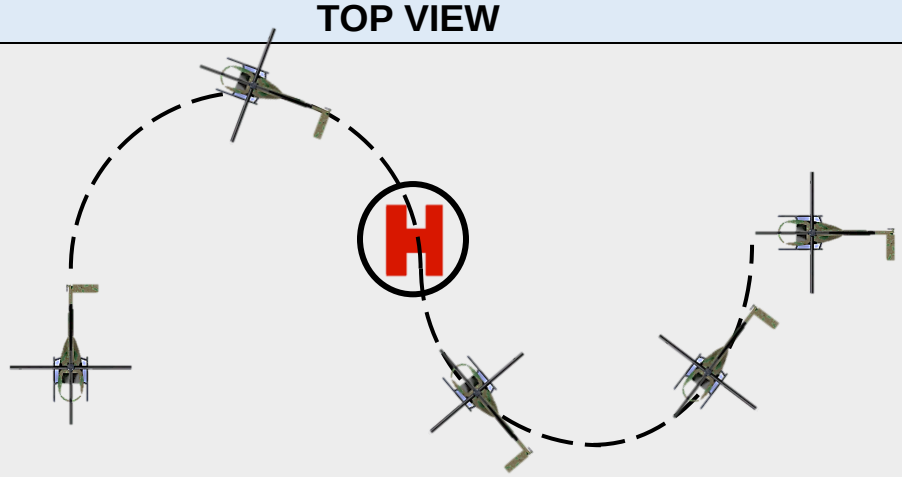
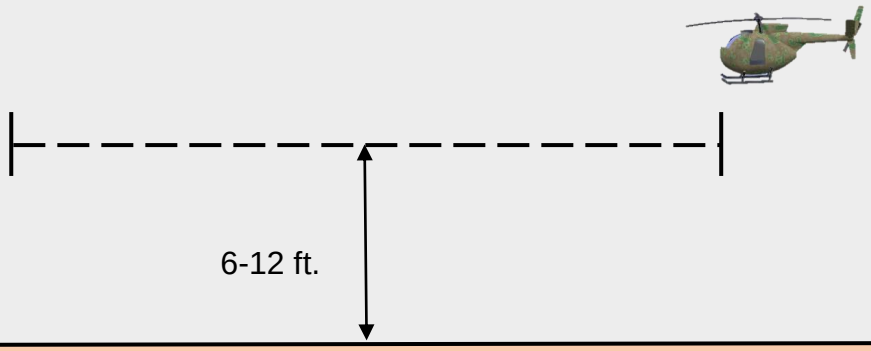
SPEED	FAST WALK
DURATION	25 METERS – 75 FT
ALTITUDE	6 FT – 2 METERS
NOTES	NO CHANGE IN ALTITUDE AND SPEED
	PARALLEL TO FLIGHT LINE
	TAIL STAYS AT 90° TO FLIGHT LINE

FLIGHT MANEUVER # 15	S TURN

TOP VIEW



SIDE VIEW



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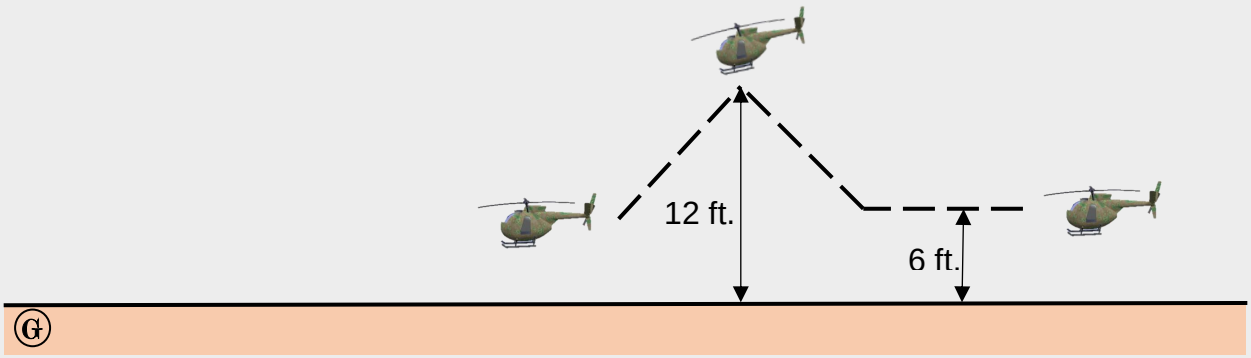
SPEED	
DURATION	
ALTITUDE	6-12 FT, 2-4 METER
NOTES	

FLIGHT MANEUVER # 16	THE BUMP

TOP VIEW

SIDE VIEW

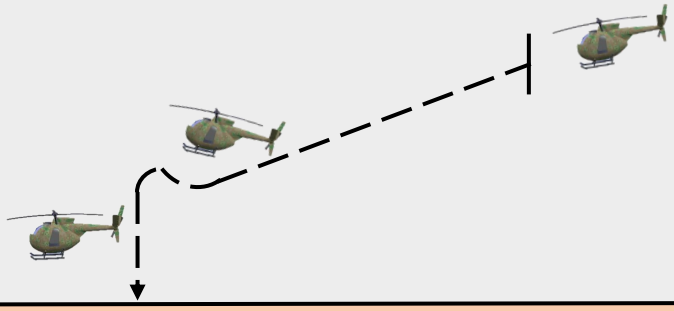


SPEED	WALKING
DURATION	25 METERS
ALTITUDE	6-12 FT
NOTES	

FLIGHT MANEUVER # 17	AUTO ROTATION TO LANDING

TOP VIEW

SIDE VIEW



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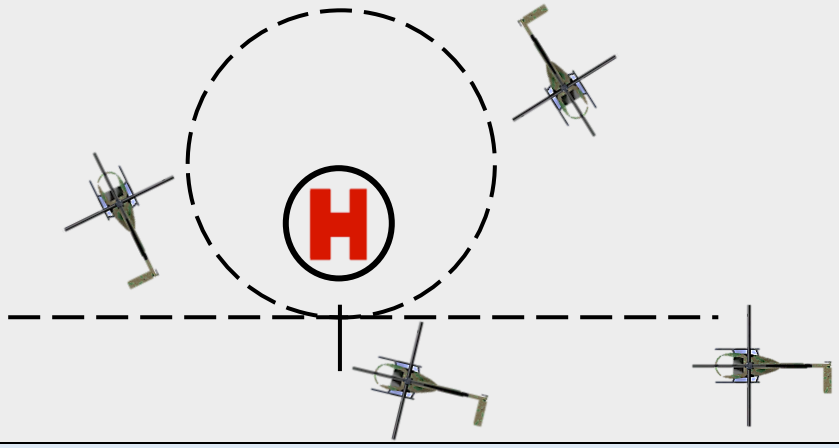
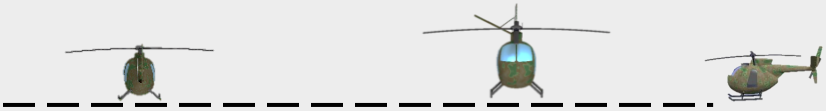
SPEED	
DURATION	
ALTITUDE	
NOTES	POWER OFF

FLIGHT MANEUVER # 18	CIRCLE

TOP VIEW



SIDE VIEW



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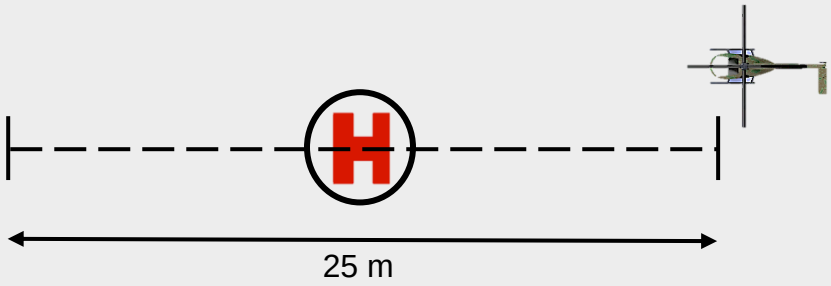
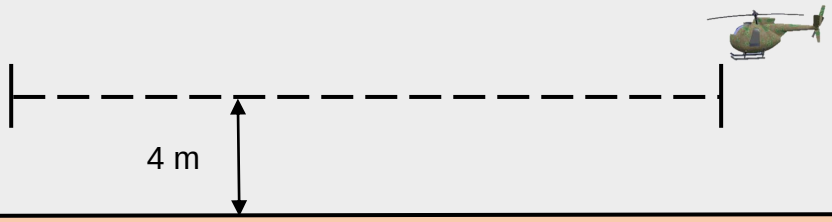
SPEED	
DURATION	
ALTITUDE	6-12 FT 2-4 METER
NOTES	NO CHANGE IN ALTITUDE SPEED

FLIGHT MANEUVER # 19	FAST FLY BY

TOP VIEW



SIDE VIEW



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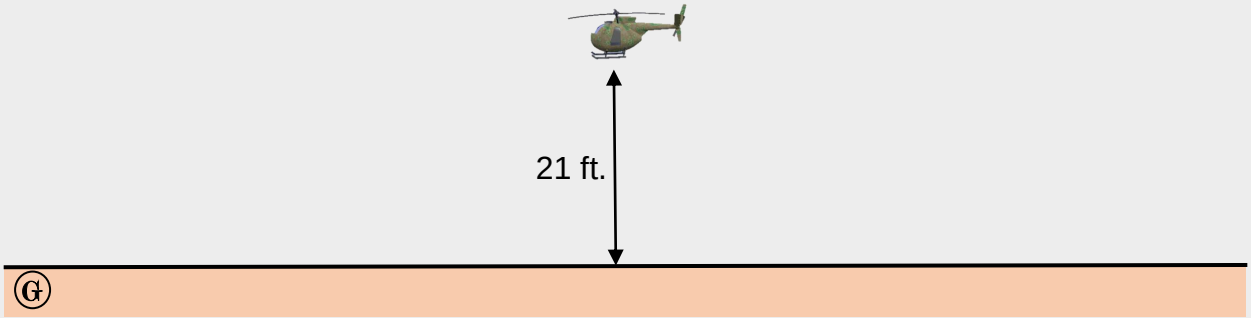
SPEED	20 MPH
DURATION	25 METERS – 75 FT
ALTITUDE	4 METER- 12 FT
NOTES	NO CHANGE IN SPEED AND ALTITUDE

FLIGHT MANEUVER # 20	HIGH HOVER

TOP VIEW

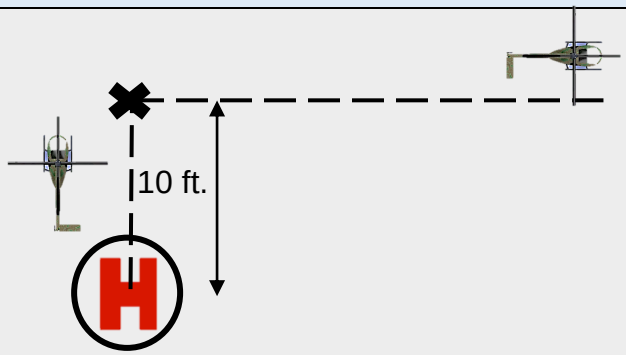
SIDE VIEW



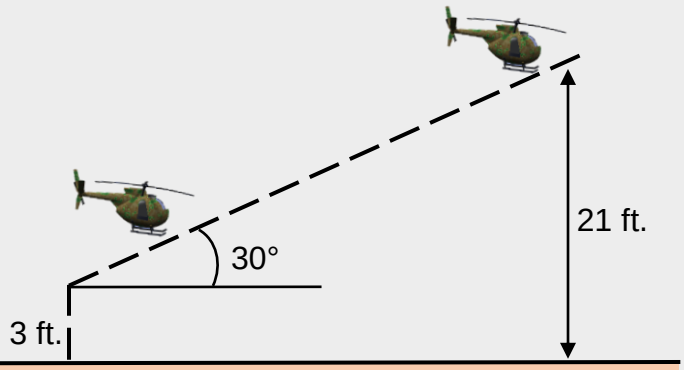
SPEED	
DURATION	15 SEC
ALTITUDE	21 FT – 7 METER
NOTES	

FLIGHT MANEUVER # 21	HOVER TAXI- CLEARING TURNS

TOP VIEW



SIDE VIEW



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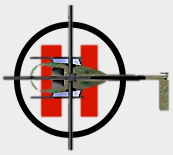
SPEED	WALKING SPEED
DURATION	FINISH AT 21 FT
ALTITUDE	TAXI AT 3 FT – FINISH AT 21 FT
NOTES	TAXI OUT – STOP TURN 45° TOWARD TAKE OFF
	DIRECTION – TURN 90° TO CHECK TRAFFIC – TURN
	TO DEPART

FLIGHT MANEUVER # 22	HOVERING PIROUETTE

TOP VIEW



SIDE VIEW

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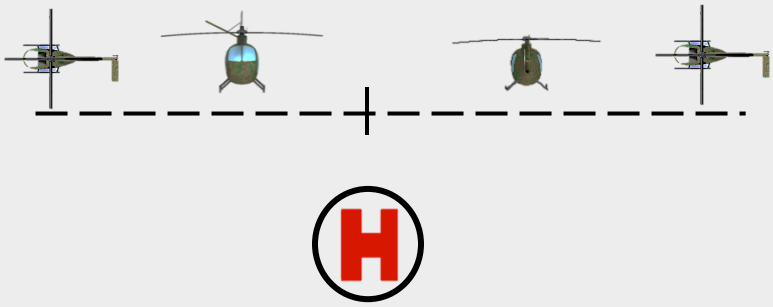
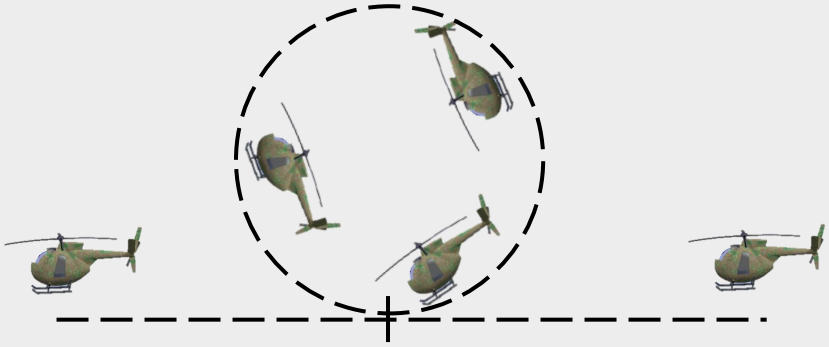
SPEED	NONE
DURATION	
ALTITUDE	6 FT
NOTES	MOVE AROUND A POINT
	NO CHANGE IN ALTITUDE

FLIGHT MANEUVER # 23	LOOP

TOP VIEW



SIDE VIEW



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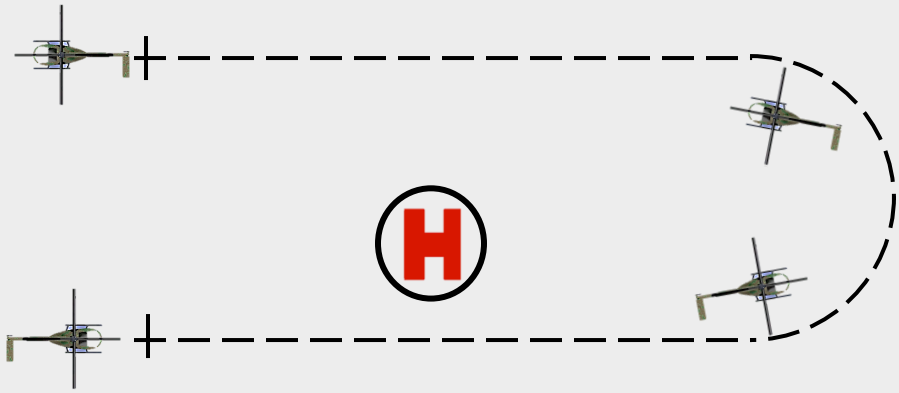
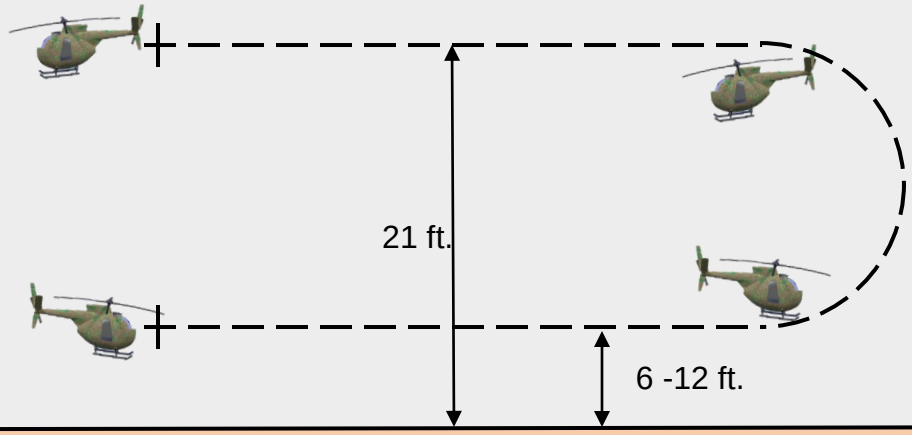
SPEED	
DURATION	
ALTITUDE	SAFE
NOTES	ENTER AND EXIT SAME ALTITUDE

FLIGHT MANEUVER # 24	CHANDELL

TOP VIEW



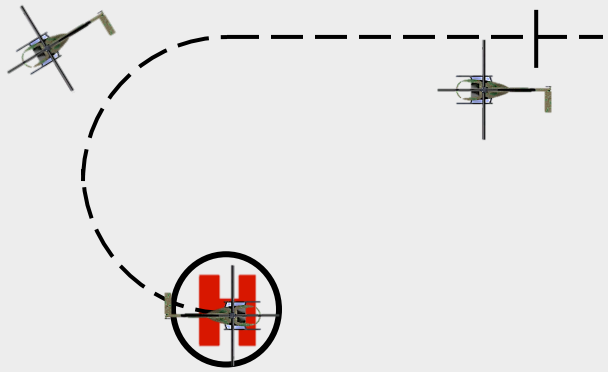
SIDE VIEW



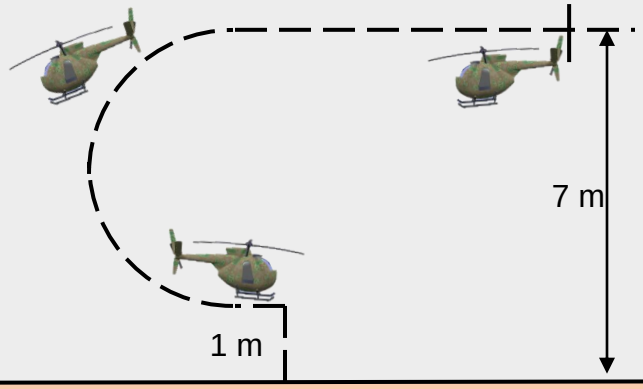
SPEED	20 MPH
DURATION	
ALTITUDE	START 6 -12 FT, FINISH AT 6 FT
NOTES	

FLIGHT MANEUVER # 25	180° DECENT TO LANDING

TOP VIEW



SIDE VIEW



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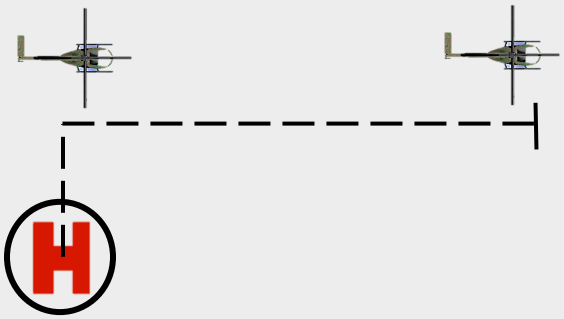
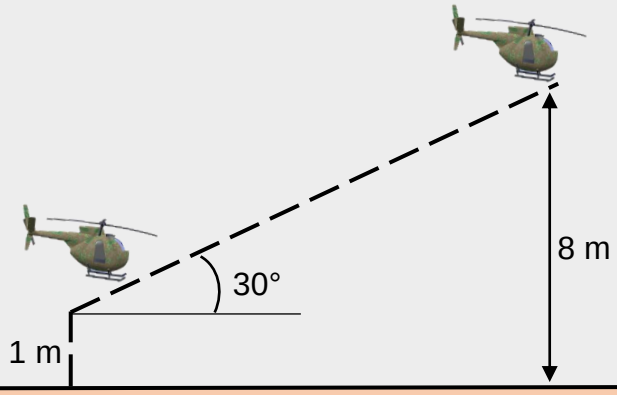
SPEED	
DURATION	
ALTITUDE	
NOTES	

FLIGHT MANEUVER # 26	HOVER TAXI WITH NORMAL TAKE OFF

TOP VIEW



SIDE VIEW



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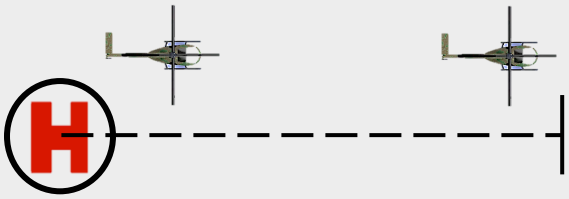
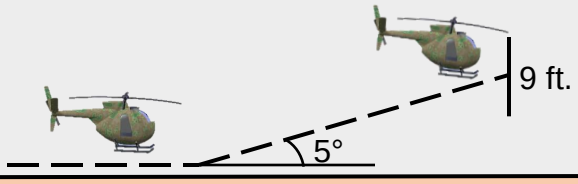
SPEED	WALKING
DURATION	END AT 24 FT / 8 METERS
ALTITUDE	
NOTES	HOVER TAXI FOR 10 FT @ 3 FT THEN TAKE OFF

FLIGHT MANEUVER # 27	GROSS WEIGHT TAKE OFF

TOP VIEW



SIDE VIEW



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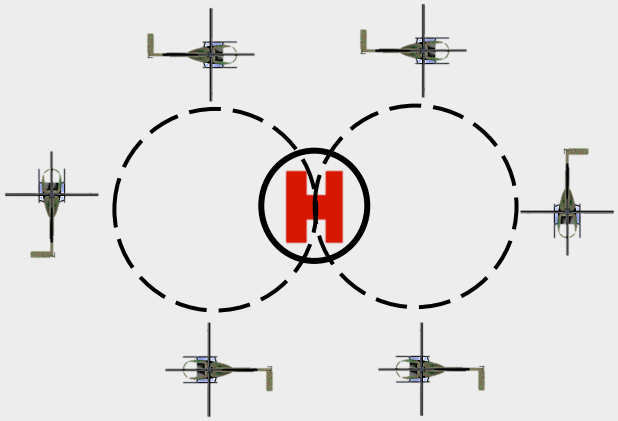
SPEED	WALKING
DURATION	FINISH AT 9 FT
ALTITUDE	0 TO 9 FT
NOTES	HELI NEED TO SLIDE BEFORE TAKING OFF

FLIGHT MANEUVER # 28	FIGURE 8

TOP VIEW



SIDE VIEW

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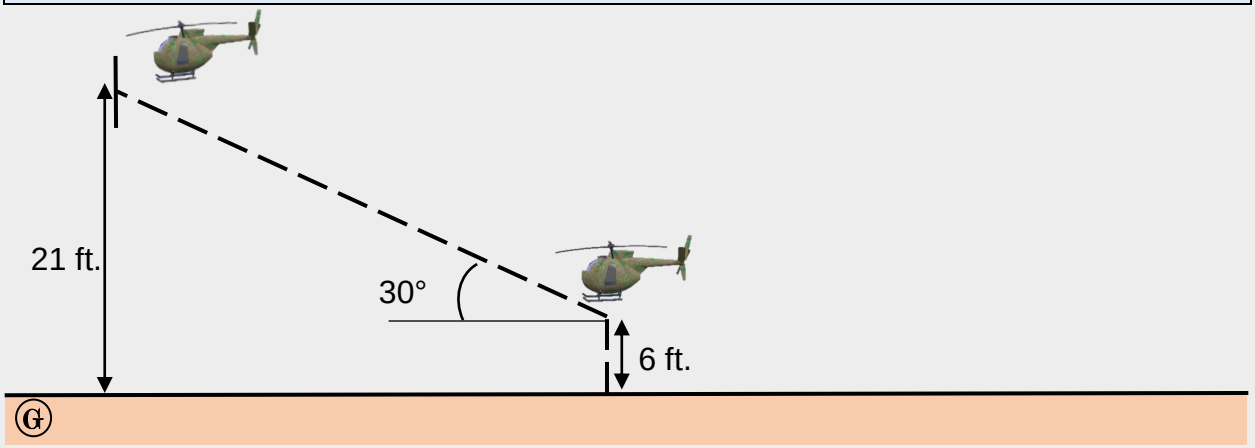
SPEED	
DURATION	
ALTITUDE	
NOTES	NO CHANGE IN SPEED AND ALTITUDE

FLIGHT MANEUVER # 29	CONFINED TAKE OFF

TOP VIEW

SIDE VIEW

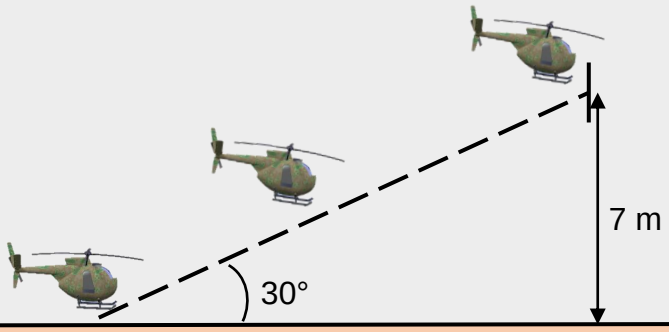


SPEED	WALKING
DURATION	END AT 21 FT- 7 METERS
ALTITUDE	
NOTES	

FLIGHT MANEUVER # 30	NORMAL TAKE OFF

TOP VIEW

SIDE VIEW



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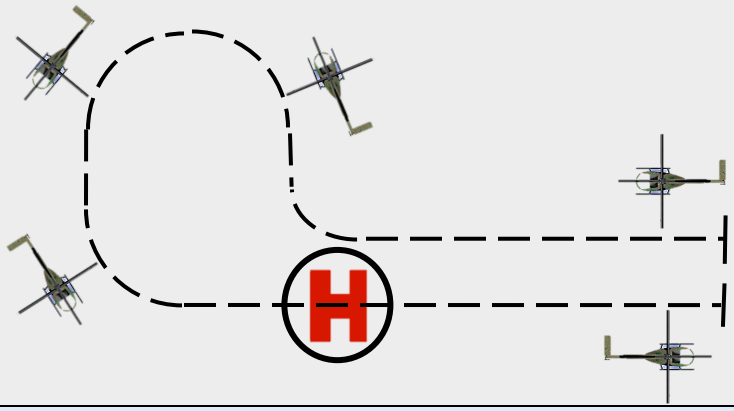
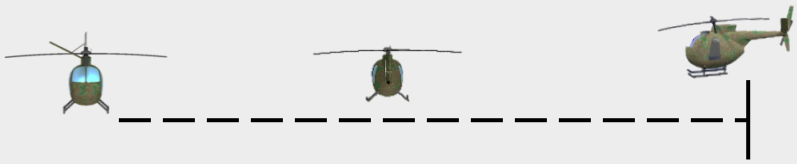
SPEED	WALKING
DURATION	
ALTITUDE	FINISH AT 7 METER - 21 FT
NOTES	NO CHANGE IIN SPEED OR LINE

FLIGHT MANEUVER # 31	MISSED APROACH

TOP VIEW



SIDE VIEW



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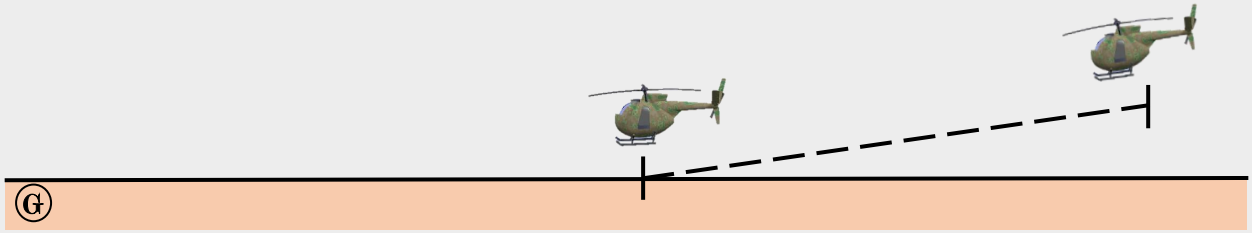
SPEED	10-15 MPH
DURATION	25 METERS
ALTITUDE	6 - 12 FT
NOTES	NO CHANGE IN ALTITUDE AND SPEED

FLIGHT MANEUVER # 32	LOW APROACH LANDING

TOP VIEW

SIDE VIEW



SPEED	WALKING
DURATION	25 METERS
ALTITUDE	
NOTES	