

$453.59 \text{ g} = 1 \text{ lb}$
 $2.54 \text{ cm} = 1 \text{ inch}$

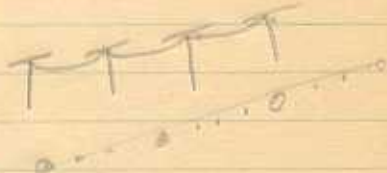
millibar - 1000 dynes per sq. cm.

Dyne is that force which is necessary to impart to a mass of one gram an acceleration of one cm per sec per sec.

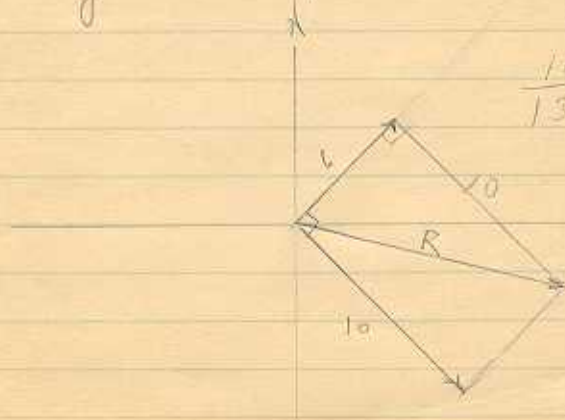
Density of air at sea level, .0013 grams/cm³.

Hygroscopic nuclei are particles with the ability to absorb moisture.

Vectors:



Vectors show magnitude & direction represented by an arrow.



	116
36	156
100	1
136	36
	21
226	500
	11356

Assignments Nav.

7/7/42

TM. 205

ps. 36-51 (omit #29)

Ps. 134-6

142-5

TM 1-205

Affects of Wind P 43 Page 54

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British Air Ministry

Vectors

P 22 Page 26

□ Δ

48 ✓ 45

D.R. Navigation - P 1 Page 93

✓ 97

P 23 Page 98

Weema

Wind and allied Problems. Page 113 - 119.

TM 205

124-125

R/a

TM 205; On the Compass (Deviation).

P 36 Page 47.

P 38 Page 51

P 37 Page 49

P 153 183-193

Brit. Air Ministry

193-210

Winds 86-91

Vacqueretta 20

22 29.3
24

20 mo. p.h.
37 ft

29.3 ft per sec.

37
2
74

$$20 = 2a \cdot 37 + (29.3)^2$$

$$0 = 74a + 858.49 = 29.3$$

$$-858.49 = 74a$$

29.3

$$-11.6 \text{ ft/sec} = a$$

879

2637

586
858.49

11501
74 858.490
74
18
74
444
444
90

U_0
0

300 m in 30 sec

$$a = \frac{v}{t} \text{ meter per sec/sec}$$

$$\bar{v} = 10 \text{ meter per sec}$$

$$v = 20 \text{ meter per sec}$$

$$a = \frac{v}{t}$$

$$a = \frac{20}{30} = 10 \text{ meter per sec/sec}$$

$$\bar{v} = \frac{v_0 + v_e}{2}$$

$$v = at$$
$$= 10 \cdot 30$$

$$a = \frac{20}{30}$$

$$v = 300 \text{ m}$$

20

Motion

$$\bar{v} = av, \text{ velocity}$$

$$v = at \text{ where } v = \text{final velocity}$$

$$s = \bar{v}t \quad s = \text{distance}$$

$$\bar{v} = \frac{v_0 + v}{2}$$

$$\left\{ \begin{aligned} s &= \left(\frac{v_0 + v}{2} \right) t \\ s &= \frac{1}{2} at^2 \end{aligned} \right\}$$

$$s = v_0 t + \frac{1}{2} at^2 = \text{for distance when initial velocity is more than 0.}$$

$$s = v_0 t + \frac{1}{2} at^2$$

$$s = \frac{1}{2} at^2$$

$$s = v_0 t + \frac{1}{2} at^2$$

Falling body $a = g$: 32 ft per sec per sec.

$$s = \frac{1}{2} at^2 - \text{no initial velocity}$$

$$s = v_0 t + \frac{1}{2} at^2 - \text{initial velocity}$$

$$v^2 = 2ad - \text{no initial velocity}$$

$$v^2 = 2ad + v_0^2 - \text{'' '' '' ''}$$

formulae in Motion

$$s = vt$$

$$a = \frac{v - v_0}{t}$$

Initial vel = 0

Initial vel > 0

$$v = at$$

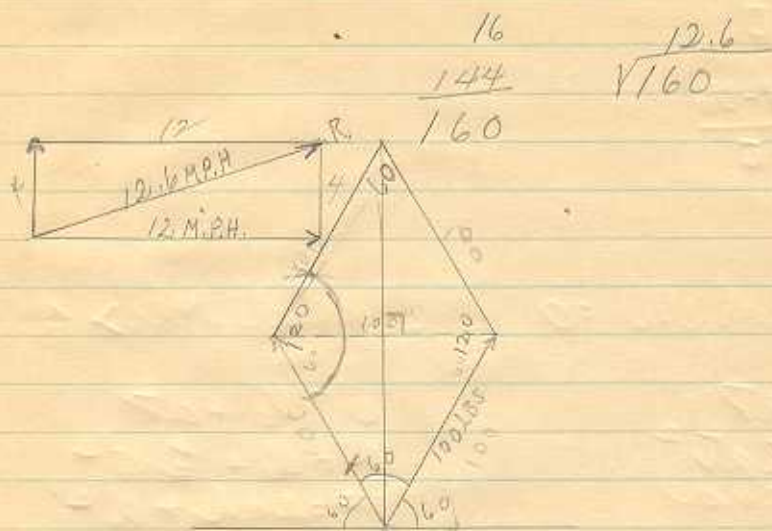
$$v = v_0 + at$$

$$d = \frac{1}{2}at^2$$

$$d = v_0t + \frac{1}{2}at^2$$

$$v^2 = 2ad$$

$$v^2 = 2ad + v_0^2$$



In a $30^\circ 60^\circ$ right triangle the short leg is equal to $\frac{1}{2}$ the hypotenuse.

1.6 Kilometers in one mile
 39.37 inches in meter
 2.54
 453.59 g's in lbs
 2.54 cm in one inch.

Metro:

TM 1-230

P. 56-65

"The Stars"

Antares
Shaula
Ischubba
Nunki
Hans Australis
Altair
Rasalague
Deneb
Vega
Arcturus
Spica
Enif
Etamin
Caph
Schedir
Ruchbah
Alshwat
Algenib
Scheat
Markab
Alphecca
Alkaid
Mizar
Alcoth
Mugrez
Phecda
Markab Merak
Dubhe
Fomalhaut
Murach
Almach
Marfik

Conj: - connects words, phrases,
clauses.

1. coordinating.
2. subordinating.

Preposition: Show relationship between
noun or pronoun and something.

1. to, around, about, for.

adj: describes, points out, or limits

adv: Tells how, when & where.

DATE	TIME	BODY	Ho.	ERROR
SEPT. 16	18-54-15	SUN	62° 44' 48'	1 MILES OFF
SEPT. 16	18-56-26	SUN	62°38'42'	1 MILES OFF
SEPT. 16	18-58-47	SUN	62°30'34	1 MILES OFF
SEPT. 16	19-01-00	SUN	62° 24' 28'	2½ MILES OFF
SEPT. 16	26-18	SUN	^{42 - 18} 39 08 22	5 MILES
SEPT. 16	26-44	SUN	37° 02' 12'	3 MILES
SEPT. 16	26-46	SUN	36°43'47'	3 MILES
{ SEPT. 16	02-20	ANTARES	19-46	} 3 MILES
SEPT. 16	02-23-30	ARCTURUS	18-50	
SEPT. 16	02-27	POLARIS	29-16	
{ SEPT. 16	03-17-23	FOMALHAUT	20°-34'	} 2 MILES.
SEPT. 16	03-21-47	POLARIS	29°-26'30'	
SEPT. 16	03-26	ALPHERATZ	43°42'	
{ SEPT. 16	04-12-40	FOMALHAUT	26°26'	} 2 MILES
SEPT. 16	04-17-14	VEGA	54°22'	
SEPT. 16	04-21-30	POLARIS	29°46'	
SEPT. 17	19-02-30	SUN	62°02'	7 MILES.
SEPT. 17	21-44-00	SUN	35°56'	
SEPT. 17	21-51-30	SUN	35°26'	
{ SEPT. 17.	01-42-44	ANTARES	24°22'	} 15 MILES. (NOT SURE OF TIME)
SEPT. 17	01-45-21	ARCTURUS	26°16'	
SEPT. 17	01-48-32	POLARIS	29°22'	
SEPT. 19	22-10-00	SUN	30°56'	0 MILES.
SEPT. 19	22-16-00	SUN	29°40'	2 MILES.
SEPT. 19	22-18-00	SUN	29°14	2½ MILES.
SEPT. 22	15-55	SUN	43°14'	0
SEPT. 22	15-57-30	SUN	43-44	4 MILES
SEPT. 22	16-00	SUN	44-10	1½ MILES
SEPT. 22	16-02-30	SUN	44-40	4 MI. MILES.
SEPT. 22	16-05	SUN	45-04	4 MILES
SEPT. 22	16-07	SUN	45-28	2 MILES.

DATE	TIME	BODY	Ho	ERROR
SEPT 22	01-27-32	ANTARES	23 44	} 6 MILES.
SEPT 22	01-31-15	ARCTURUS	25 02	
SEPT 22	01-34-28	POLARIS	29-10	
SEPT 22	02-17-16	ALPHECCA	34-46	} 0 MILES.
SEPT 22	02-20-19	ALPHERATZ	34-40	
SEPT 22	02-23-27	POLARIS.	29-26	
SEPT 25	21-43	SUN	34-40	3 1/2 MILES
SEPT 25	21-46	SUN	34-04	3 MILES
SEPT 25	21-49-30	SUN	33-20	2 MILES.
SEPT 25	21-52	SUN	32-46	7 MILES
SEPT 25	21-55-30	SUN	32-06	3 MILES.
SEPT 25	21-57-30	SUN	31-42	2 MILES.
SEPT 25	21-59-30	SUN	31 22	8 MILES
SEPT 27	17-53-58	SUN	57-50	} AVG. TO GET HACK } AV. 14 MILES
SEPT 27	17-56-07	SUN	57-56	
SEPT 27	17-58-39	SUN	58-07	
SEPT 27	22-07	SUN	29-12	2 MILES
SEPT 27	22-09	SUN	28-48	2 MILES.
SEPT 28	13-54-26	MOON	27-28	3 MILES
✓	13-57-26	SUN	18-30	6 MILES
✓	13-59-56	MOON	26-18	7 MILES
✓	14-02-56	SUN	19-40	1 MILES
✓	14-06-56	MOON	24-44	2 MILES
✓	15-11-56	SUN	33-50	1 MILES
SEPT 29	19-13-55	SUN	56-16	3 MILES.
✓	19-16-25	SUN	56-08	0 MILES.
SEPT 30	19-55	SUN	51-34	1 MILES.
✓	19-57	SUN	51-18	3 MILES.
✓	19-59	SUN	51-02	1 MILES.
✓	20-02	SUN	50-36	3 MILES.
✓	22-06-30	SUN	28-22	4 MILES.
✓	22-09	SUN	29-56	5 MILES.

DATE	TIME	BODY	Ho	ERROR
SEPT. 30	22-11	SUN	27.30	2 MILES.
"	22-13	SUN	27.04	0
"	22-15	SUN	26.40	2 MILES
"	22-17	SUN	26-16	3 MILES.
Oct 2, 1	19-50-56	SUN	51-44	4 MILES
"	19-52-56	SUN	51-28	5 MILES
"	19-54-56	SUN	51-14	4 MILES
"	20-29	SUN	46-12	7 MILES
"	20-31	SUN	45-52	1 MILES
"	20-33	SUN	45-34	5 MILES
Oct 2	01-36-22	ALPHERATZ	33-49	} 9 MILES
"	01-38-35	ALPHECCA	34-41	
"	01-41-10	POLARIS	29-29	
Oct 7	01-57	POLARIS	29-34	3 MILES
"	02-00	POLARIS	29-33	1 MILES
"	02-03	POLARIS	29-33	0 MILES.
"	02-06-30	POLARIS	29-34	0 MILES
"	02-09	POLARIS	29-35	1 MILES
"	02-12	POLARIS	29-34	1 MILES.
"	02-16	ALPHERATZ	46-13	6 MILES
"	02-24-30	ALPHERATZ	48-08	2 1/2 MILES
"	02-27	ALPHERATZ	48-41	1 1/2 MILES

Chronometer

Part No. A.N. 5740

Serial No. A.F. 42-4992

Mfr's Part No. #4992B

Navigation Watch Wrist.

TYPE A-11

SPEC. NO. 44-27834

SERIAL No. AF #2-52811

WALTHAM WATCH CO.