

$$y = mx + 4 - 3m$$

$$m = 1\frac{1}{3}$$

$$0 = m \cdot 0 + 4 - 3m$$

$$x = 0, \quad y = 0$$

$$m = 1\frac{1}{3} :$$

$$y = 4$$

$$x =$$

$$m = 0$$

$$0$$

$$x =$$

$$(1)$$

$$y = 4 :$$

$$y = 1\frac{1}{3}x$$

$$m = 1\frac{1}{3}$$

$$(2)$$

$$4 < 1\frac{1}{3}x$$

$$4 < 1\frac{1}{3}x \quad / : 1\frac{1}{3} > 0$$

$$3 < x$$

$$x > 3 :$$

(m)

A

$$y = 4 - y = 1\frac{1}{3}x :$$

$$4 = 1\frac{1}{3}x$$

$$x = 3$$

$$(3, 4) \quad A$$

$$(3, 4) \quad A$$

:

20

21

$$a_1 + 20d = 0 \quad 0 \quad 21 - \quad ,$$

$$a_1 + 20d = 0 :$$

$$, a_{21} > a_0 \quad , a_{21} = 0 - \quad a_1 < 0$$

$$, a_1 + 1 + a_2 + 2 + a_3 + 3 + \dots + a_n + n : \quad , \quad (1)$$

S_n

$$. S_n + 1 + 2 + 3 + \dots + n = S_n + \frac{n(1+n)}{2}$$

861 -

$$861 = \frac{n(1+n)}{2}$$

$$n^2 + n - 1722 = 0$$

$$n_{1,2} = \frac{-1 \pm 83}{2} \rightarrow \boxed{n = 41}$$

n

$$. n = 41 :$$

(2)

$$a_{21} - \quad , 41$$

.0

$$S_n = \frac{n(2a_1 + d(n-1))}{2}$$

$$S_{41} = \frac{41(2a_1 + d(41-1))}{2}$$

$$S_{41} = \frac{41(2a_1 + 40d)}{2}$$

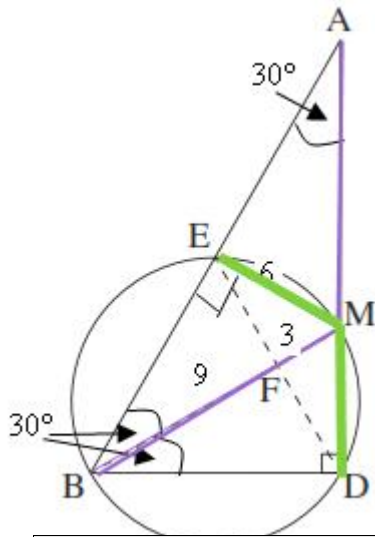
$$S_{41} = \frac{41(a_1 + 20d)}{2}$$

$$\boxed{S_{41} = 0} \leftarrow a_1 + 20d = 0$$

.0

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"



$\sphericalangle ADB = 90^\circ$.1

.EM = " 6 .4 ,BF = " 9 .3 FM = " 3 .2

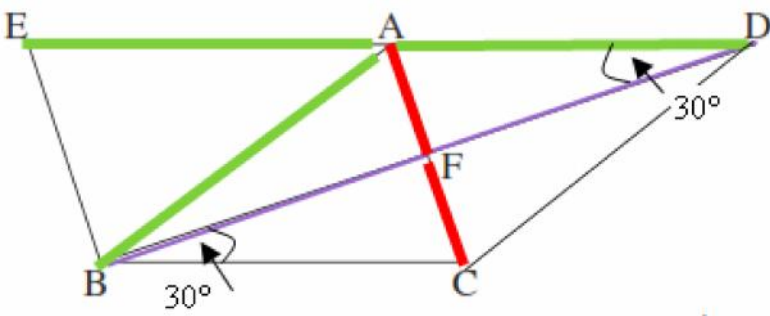
ED \perp BM .5 :

2 · EM = EMDB (1) . : "

AM = 2 · MD (2) $\sphericalangle EBM = \sphericalangle MBD$ (1) . $\frac{EM}{2}$ (2)

	$\sphericalangle ADB = 90^\circ$	6	1
	BM	7	6
	FM = " 3	8	2
	BF = " 9	9	3
	BM = " 12	10	9,8
	EM = " 6	11	4
	EM = 0.5BM	12	11,10
	EMDB	13	12,7
	2 · EM		
(1) . . .			
	$\sphericalangle BEM = 90^\circ$	14	7
, 30°	ΔEBM - $\sphericalangle EBM = 30^\circ$	15	14,11,10
(2) . . .			
	ED \perp BM	16	5
	ED = EF	17	16,7
"	ΔEBD	18	17,16
"	$\sphericalangle EBM = \sphericalangle MBD$	19	18,17
(1) . . .			
	MD = EM	20	19
60°	" ΔEBD	21	20,18
"	ED = BD = ED	22	21

	$\sphericalangle EBD = 60^\circ$	23	19,15
$180^\circ \Delta EBD$	$\sphericalangle A = 30^\circ$	24	23,6
	$\sphericalangle EBM = \sphericalangle A$	25	24,15
ΔAMB	$AM = BM$	26	25
	$AM = 2 \cdot MD$	27	26,20,13,7
(2) . . .			



DF = FB .2 AF = FC .1

DA = AE .3 :

EB ⊥ BD .4 :

ΔABC .5 :

AB CE . ADCB . : "
 ∠ADF . ΔABC .

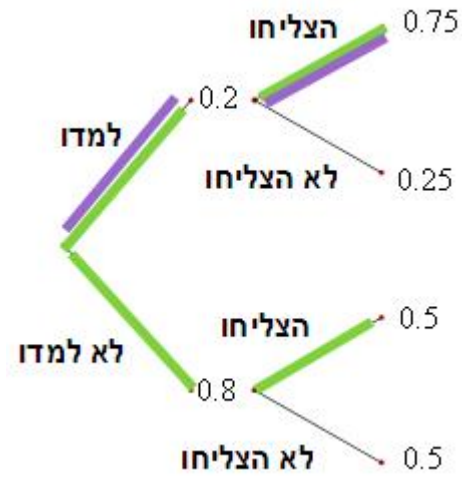
	AF = FC	6	1
	DF = FB	7	2
	ADCB	8	7,6
. . .			
	DA = AE	9	3
	DA = CB	10	8
	CB = AE	11	10,9
	DA CB	12	8
	AE CB	13	12
	AEBC	14	13,11
	AB CE	15	14
. . . .			
	EB ⊥ BD	16	4
ΔEBD	BA = AD	17	16,9
	BA = BC	18	17,11
	ΔABC	19	18
. . . .			
	ΔABC	20	5
60°	∠ABC = 60°	21	20
	ADCB	22	18,14
	∠ADC = 60°	23	22,21
	∠ADF = 30°	24	23,22
. . . .			

.0.25

,0.75

$$P(\text{pass in the 3rd exam}) = 0.25 \cdot 0.25 \cdot 0.75 = \frac{3}{64}$$

$\frac{3}{64}$



$$p(\text{learned} / \text{passed}) = \frac{P(\text{learned} \cap \text{passed})}{P(\text{passed})} = \frac{0.2 \cdot 0.75}{0.2 \cdot 0.75 + 0.8 \cdot 0.5} = \frac{3}{11}$$

$\frac{3}{11}$

.0.5

$$P(\text{pass in the 3rd exam}) = 0.5 \cdot 0.25 \cdot 0.75 = \frac{3}{32}$$

$\frac{3}{32}$

$$R = \frac{P(\bar{D} / \bar{A}) \cdot P(\bar{A})}{P(\bar{D} / A) \cdot P(A)} :$$

$$P(\bar{A} / \bar{D}) = \frac{R}{1+R} :$$

$$P(\bar{A} / \bar{D})$$

.()

, - ()

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