# FERST LESONZ IN JEOMETRI

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649582389

Ferst Lesonz in Jeometri by Thomas Hill

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd.
Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

www.triestepublishing.com

THOMAS HILL

# FERST LESONZ IN JEOMETRI

Trieste

# FERST LESONZ

IN

# JEOMETRI.

BI

TOMAS HIL.

*FAKTS BEFOR REZNIN.*

SINSINATI:
LOWLI, HOR & KUM.
1858.

Eng T 148.58.453

Mrs Alfred Worcester

Entərd akərdiŋ tu akt ov Koŋgres, in də yer 1855, bi
TOMAS HIL,
In dz Klerks Ofis ov də Distrikt Kort ov dz Distrikt ov Massəçusets.

# PREFƀS.

Ŧ hav loŋ bin sekiŋ ɑ Jeometri fer beginerz, sɥted tɯ mį tast, and tɯ mį konvikʃonz ov hwot iz ɑ proper fɜndaʃon fer sįentifik edyɥkaʃon. Fįndiŋ đat Mr. Jɷsįɑ Hɷlbrɯk agred mɷst kerdyali wiđ me in mį estimat ov đis studi, į had hɷpt đat hiz tretiz wɯd satisfį me; but elđɷ đe best į had sen, it did not met mį vɥz. Menhwįl, mį ɷn çildren węr in mɷst urjent ned ov ɑ tekst bɯk, and đe sens ov đąr wont haz drivn me tɯ tak đe tįm nesesari fer rįtiŋ đez pajez. Tɷ çildren, wun ov fįv, đe uđer ov sevn and ɑ hɑf, węr befɷr mį mįndz į el đe tįm ov mį rįtiŋ; and it wil be fɜnd đat çildren ov đis aj ɑr kwiker in komprehendiŋ fęrst lesonz in Jeometri đan đɷz ov fiften. Meni pɑrts ov đis bɯk wil, hɜever, be fɜnd adapted, not ɷnli tɯ çildren, but tɯ pɥpilz ov adult aj. Ƀe trɷđz ɑr sublįm. Ŧ hav trįd tɯ prezent đem in ɑ simpl and atraktiv dres.

Ŧ hav adrest đe çįldz imajinaʃon, rɑđer đan hiz razn, bekez į wiʃt tɯ teç him tɯ konsev ov formz.

Hs çịldz pɜerz ov sensaʃon ɑr developt befɔr hiz pɜerz ov konsepʃon, and ðez befɔr hiz reznịŋ pɜerz. His iz, ðąrfɔr, ðe trɔ order ov edyụkaʃon; and ɑ pɜerful lojikal dril, lịk Kɔlburnz admirabl fẹrst lesonz in Ariðmetik, iz sadli ɜt ov plas in ðe handz ov ɑ çịld, hɔz pɜerz ov obzervaʃon and konsepʃon hav, az yet, resɜvd nɔ tranịŋ hwotever. Ɨ hav, ðąrfɔr, avɔded reznịŋ, and simpli givn interestịŋ jeɔmetrikal fakts, fited, ị hɔp, tɯ arɜz ɑ çịld tɯ ðe obzervaʃon ov fenomenɑ, and tɯ ðe persepʃon ov fɔrmz az real entitiz.

HE ΘKOR.

# KONTENTS.


| Capter. | | Paj. |
|---|---|---|
| I. | ʿHwot is dis Buk abʊt, | 7 |
| II. | Pɔnts, Lịns, and Plans, | 9 |
| III. | Abʊt Strat Lịns, and Kurvz, | 11 |
| IV. | Abʊt Aŋgls, | 13 |
| V. | Paralel Lịns, | 16 |
| VI. | Abʊt Trịaŋgls, | 18 |
| VII. | Mɔr abʊt Trịaŋgls, | 20 |
| VIII. | Rịt Trịaŋgls, | 22 |
| IX. | Similariti and Ɛnperimetri, | 25 |
| X. | Hs Sịs ov Trịaŋgls, | 29 |
| XI. | Diferent Kịnds ov Trịaŋgls, | 31 |
| XII. | Kwodraŋgls, | 34 |
| XIII. | Paralelɔgrams, | 37 |
| XIV. | Rektaŋgls and Skwạrs, | 40 |
| XV. | Trịaŋgls and Rektaŋgls, | 44 |
| XVI. | Sẹrkls, | 48 |
| XVII. | Mɔr abʊt Sẹrkls, | 51 |
| XVIII. | Megụriŋ Angls, | 55 |

| Capter. | | Paj. |
|---|---|---|
| XIX. | Kerds, | 57 |
| XX. | Kerds and Tanjents, | 61 |
| XXI. | Mor abʊt Kerds and Tanjents, | 64 |
| XXII. | Inskrjbd Poligons, | 67 |
| XXIII. | Mor abʊt Inskrjbd Poligons, | 71 |
| XXIV. | Ꞓhʊ muç furđer rʊnd a Hɯp đan akros it. | 75 |
| XXV. | Hʊ tɯ meɣqr Sɣrkls and đqr pqrts, | 78 |
| XXVI. | Abʊt Kurvatqr, | 81 |
| XXVII. | Abʊt a Hwel Rɑliŋ, | 84 |
| XXVIII. | Mor abʊt đe Rɑliŋ Hwel, | 87 |
| XXIX. | Hwels Rɑliŋ rʊnd a Hwel, | 90 |
| XXX. | Hwel Rɑliŋ in a Hɯp, | 92 |
| XXXI. | Haŋlŋ Can, | 96 |
| XXXII. | Pqt ov a Stɑn in đe Ar, | 99 |
| XXXIII. | He Ɛadɑ ov a Bel, | 103 |
| XXXIV. | He Ɛadɑ ov a Rel, | 106 |
| XXXV. | He Kʊs Fɯt in a Kup ov Milk, | 110 |
| XXXVI. | Kqbs, | 114 |
| XXXVII. | Abʊt Kɑns, | 118 |
| XXXVIII. | He Sfer, | 121 |

# CAPTER I.

## HWOT HIS BUK IZ ABƱT.

1. Ɨ hav ritn ɑ litl buk fər yɷ abɜt Jeometri. Yɷ wil fi̧nd ɑ grat meni nu̧ wurdz in it; but i̧ hav takn panz tu ekspian đem əl, and i̧ ti̧ŋk yɷ wil understand đem əl, if yɷ wil ɷnli begin at đe beginiŋ, and rəd evéri çapter veri ka̧rfuli befɷr yɷ gɷ tu anuđer. And if yɷ fi̧nd eni plas in đe buk đat yɷ kan not understand, i̧ ti̧ŋk yɷ wil dɷ wel tu turn bak, and rəd đe hɷl ɷver agen, from đe sekond çapter. Hwen yɷ kum agen tu đe plas hwiç yɷ did not understand befɷr, i̧ ti̧ŋk yɷ wil fi̧nd it haz grɷn azier fər yɷ.

2. Ɨ hɷp yɷ wil fi̧nd đe buk interestiŋ. It telz abɜt strat li̧nz, and sẹrklz, and meni diferent kurvz, and ɑ fu̧ solid bodiz. It wil tel yɷ ku̧rius ti̧ŋz abɜt đe ʃadɷz ov mɑ̧rblz, and đe rɷliŋ ov hɷps, and abɜt tosiŋ ɑ bel, and uđer plaz fər çildren. But, if sum pɑ̧rts ov đe buk dɷ not sem interestiŋ, yɷ ʃud studi đɷz pɑ̧rts əl đe mɷr ka̧rfuli; fər đa ma, perhaps, be đe mɷst yu̧sful pɑ̧rts.