+1/	
ILLCSTRATION: 1/3 = 1/2 +1/3 = 5/4 (1/28) = 1/32 =	9 \$1 197
37. Loganithms.	The second secon
THE LAWS FOR the MultiPlication and Divison of gumustral	Surpa gross
wick involve exportants gives at a powerful tool for simplifying	ac for 51 (8)
computation. For example, we can multiply 16 and 64 by stanging	2
16 to zend 24 AND 64 to 26. THEN 24 x 2 = 210, WE SE WOMENT	
it is Necessary to have a table of the powers of 2 is that	.0
we can look up to 810 and find the answer to our -	5"
prodem quickly. Such a table : 1 called bable of it	The second secon
LOGARITHMS. LOGARIEHM ARE EXPONENTS. WILL THE DE NO	
Since our system is a decimal system (expressed tw	e use calculators
12 teams of the powers of 10), Logarieums that Mot	8-
commonly used the simply the power of to vectory	
To educated all of the Numbers. Thus it is food in A log thos:	MAN THE
Ex.: 10 = 15 ADD: 10 22625 = 183 AND IF WE WITH -PE	Soe K
EOD MULTIDLY 15 K T& 3 WE ADD 10 1761 AND 2.2615 AND 100%	100 sleft 186
etts esset up in the table of logacithms to timo what	Mail
whose is effected by 103.4386. Similianly, if we wish	the sold top of
TO DIVEDE 183 by 18, we restent the LogHARITME AND -	
LOOK up the desort in the table. Intensaring to note	Lets 265 96
that looksitums can be used to figure the square cook of	Port of 3.
A NOWDER by DIVIDING the LOGARITHM OF EHE NUMBER	
DY 2 AND REFERENCE to THE TABLE. SNITHE EXAMPLE WARES	20°+8 m2+
by Mochanica Rules, we Found VIZE FRIS cools be some	12 39/a tar
by logaritums as collowed that the per his at the	
0.8896	Engo cer
Divioing the log by 2, we got : 11.2798	9340
4,5299	to award
Is very needly 15.25.	188
38. Equations of the thies logices.	8 1 / E
WE have used the problem of art milito to counter and	. 81
sectamples as a basis por our discussion of guardanics.	3:
FORMULAS FOR the volumes of cubes and spheres	8
(V= 53, V= 15 TE) SHOW THANE ALE ALSO CONCERNED	
	0000 100
Exponent on the Unknown :23	
P. P. Lance	ZEAPTIVILY.