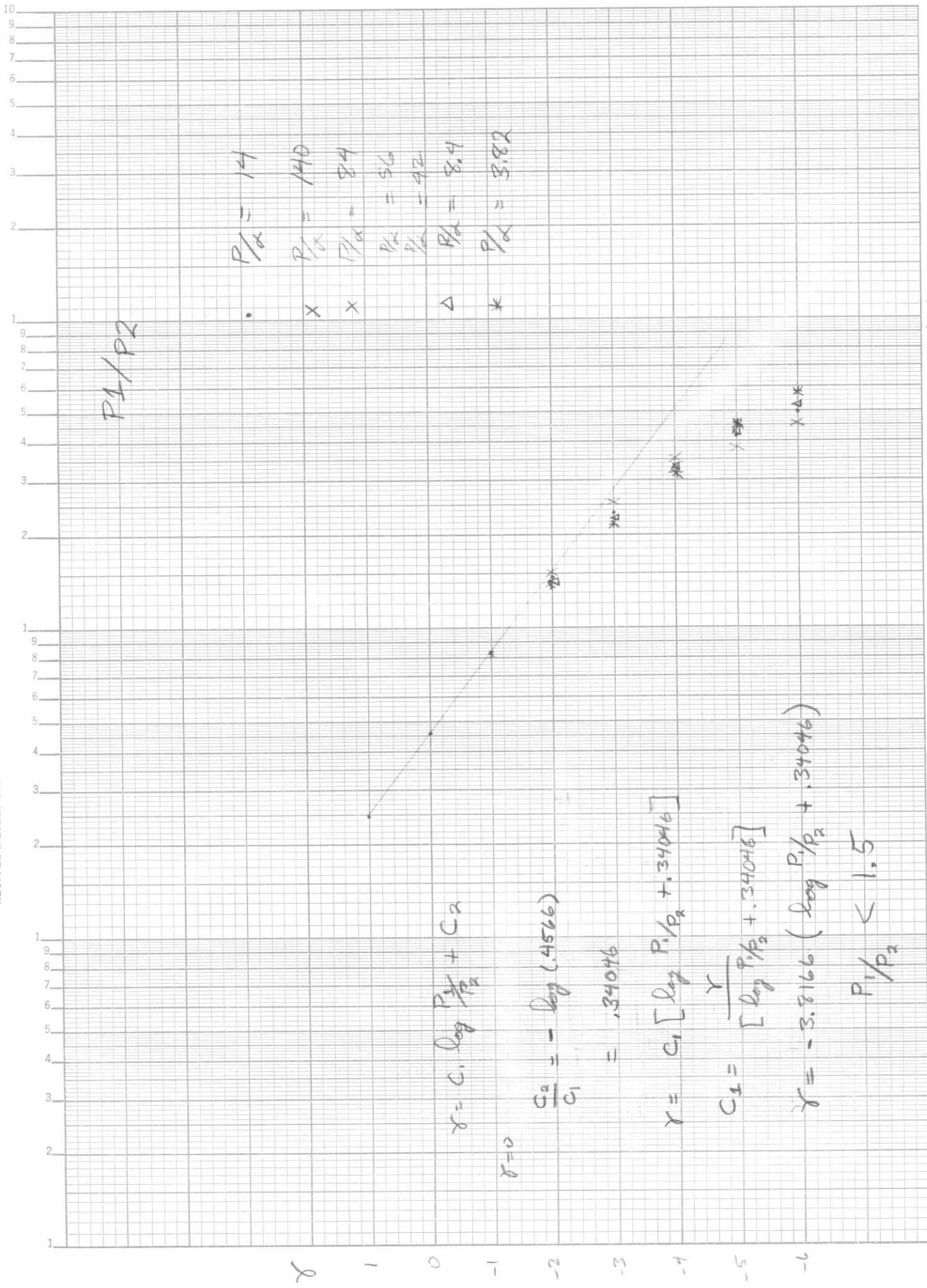
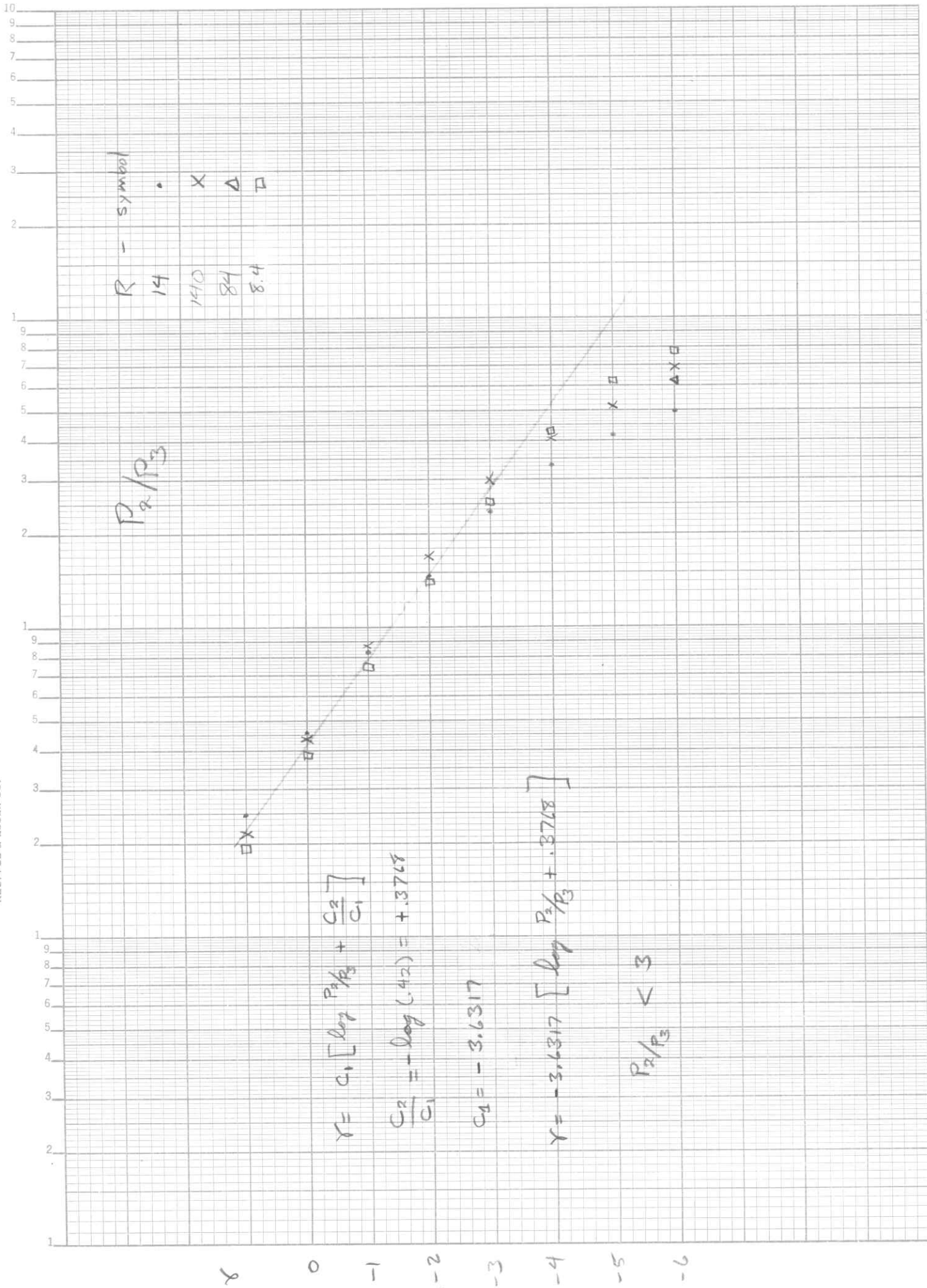


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 γ Formulas

P_1/P_2	①	$\gamma = -3.8166 (\log P_1/P_2 + .34046)$	$P_1/P_2 < 1.5$
P_2/P_3	②	$\gamma = -3.6317 (\log P_2/P_3 + .3768)$	$P_2/P_3 < 3$
P_4/P_5	③	$\gamma = -2.1796 (\log P_4/P_5 + .7212)$	$.05 < P_4/P_5 < 5$
P_5/P_7	④	$\gamma = -2.331 (\log P_5/P_7 - .68124)$	$7 < P_5/P_7 < 200$
P_7/P_8	⑤	$\gamma = -4.2653 (\log P_7/P_8 + .30980)$	$1 < P_7/P_8$
P_9/P_9	⑥	$\gamma = -3.46074 (\log P_9/P_9 + .31876)$	all
P_9/P_{10}	⑦	$\gamma = -3.6427 (\log P_9/P_{10} + .09691)$	$2 < P_9/P_{10}$
A_3/A_4	⑧	$\gamma = -2.6924 (\log A_3/A_4 + .4882)$	$1 < A_3/A_4$
A_4/A_5	⑨	$\gamma = -1.889 (\log A_4/A_5 - .3010)$	$7 < A_4/A_5$
A_5/A_6	⑩	$\gamma = -3.7042 (\log A_5/A_6 + .18046)$	$3.5 < A_5/A_6$
Z_1^*/Z_2	⑪	$\gamma = -2.98 (\log Z_1^*/Z_2 + .50864)$	all
Z_2/Z_4	⑬	$\gamma = -.911 (\log Z_2/Z_4 + 1.7959)$	$.01 < Z_2/Z_4 < 100$
Z_2/Z_3	⑯	no simple γ curve	
A_4/Z_4		no simple γ curve	
P_4/A_3	⑫	$P/\alpha = \frac{P_4/A_3 + .0232\gamma}{1 + .0448\gamma}$	within 5% everywhere
P_8/A_6	⑭	$P/\alpha = \frac{P_8}{A_6} \exp\left\{\frac{\gamma - .18705}{10.674}\right\}$	$0 > \gamma > -6$
P_5/A_4		no simple reduction	within 8%
A_3/Z_2	⑮	$\frac{\alpha}{O} = \frac{A_3}{Z_2} \exp\left[.57565 \exp(-.3380\gamma)\right]$	$0 \geq \gamma > -6$



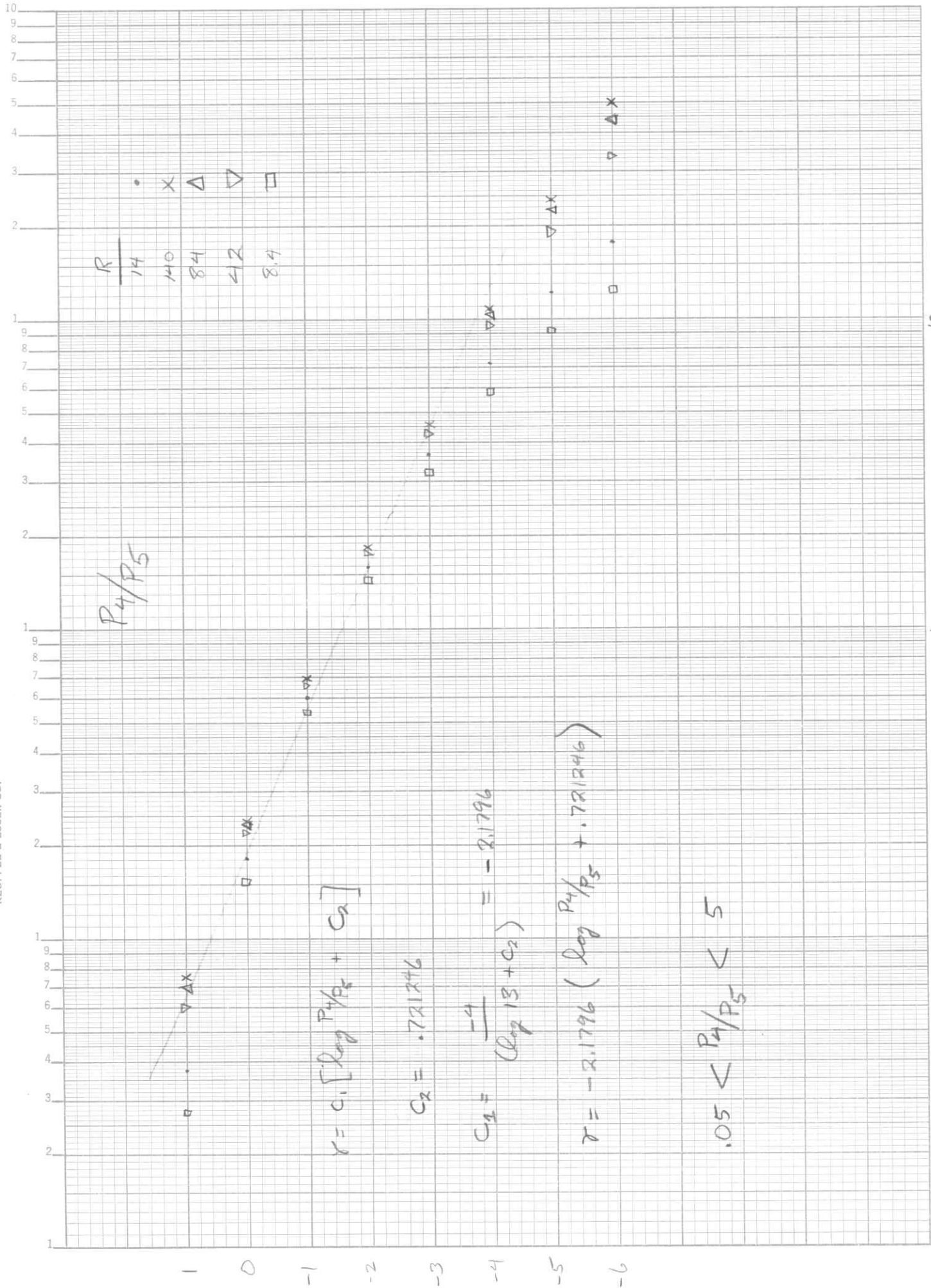


10.0

1.0

.1

P_2/P_3



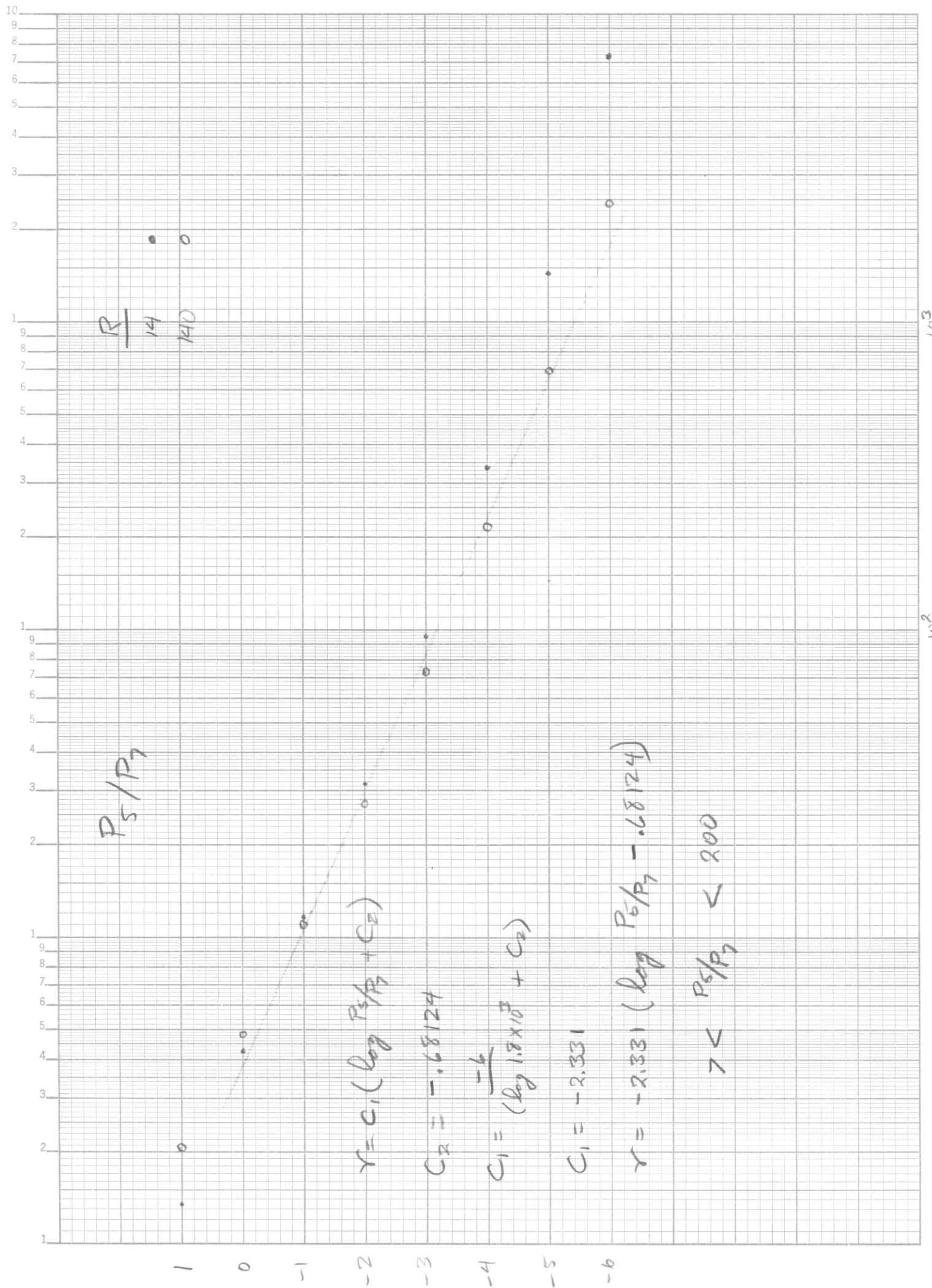
R
 14
 140
 84
 42
 8.4

P_4/P_5

10.

P_4/P_5

1.



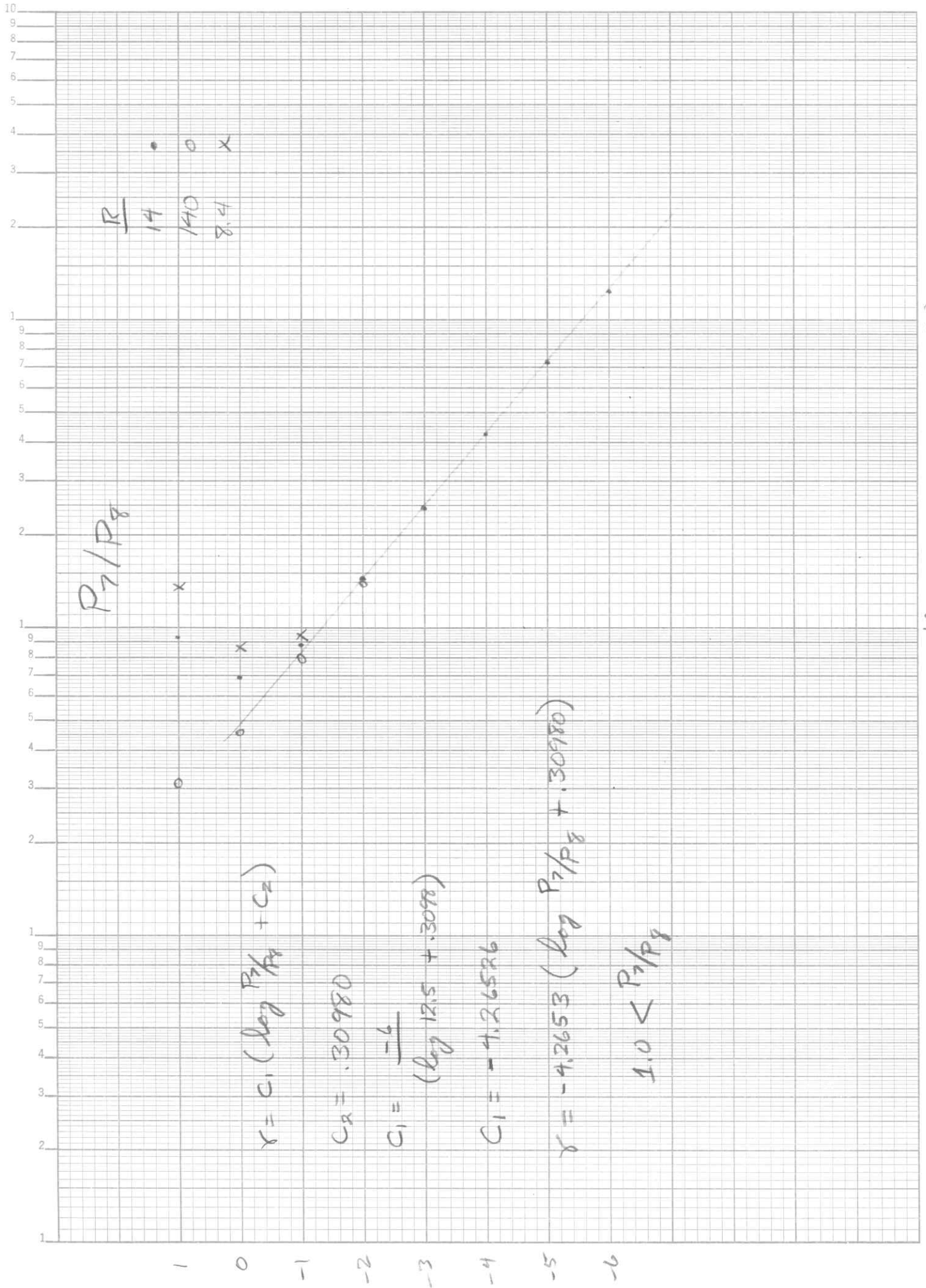
R
14
140

10³

10²

P₅/P₇

10



$$x = c_1 (\log \frac{P_7}{P_8} + c_2)$$

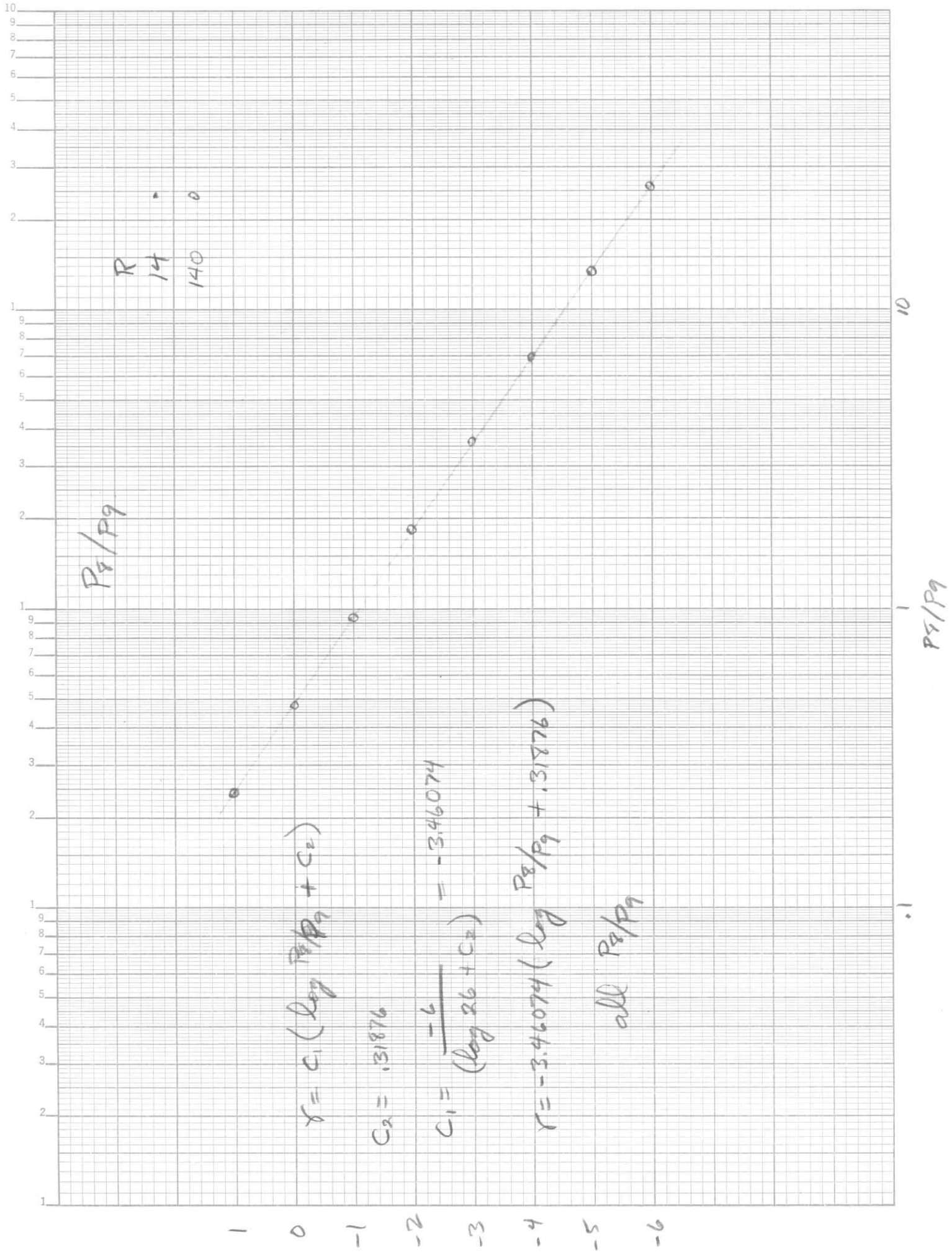
$$c_2 = .30980$$

$$c_1 = \frac{-6}{(\log 12.5 + .3098)}$$

$$c_1 = -4.26586$$

$$x = -4.2653 (\log \frac{P_7}{P_8} + .30980)$$

$$1.0 < \frac{P_7}{P_8}$$



R
14
140

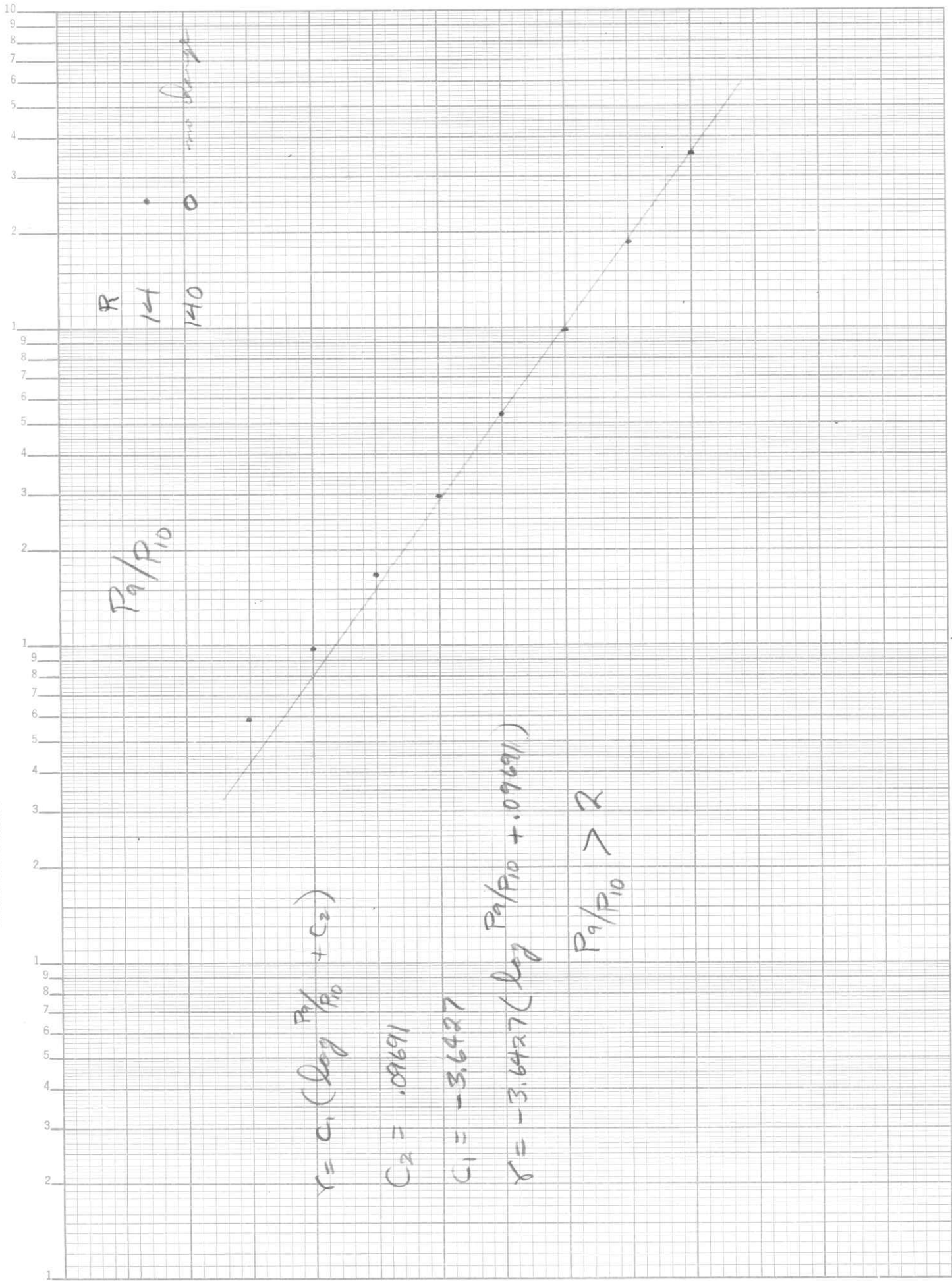
$\frac{P_2}{P_1}$

10

$\frac{P_2}{P_1}$

.1

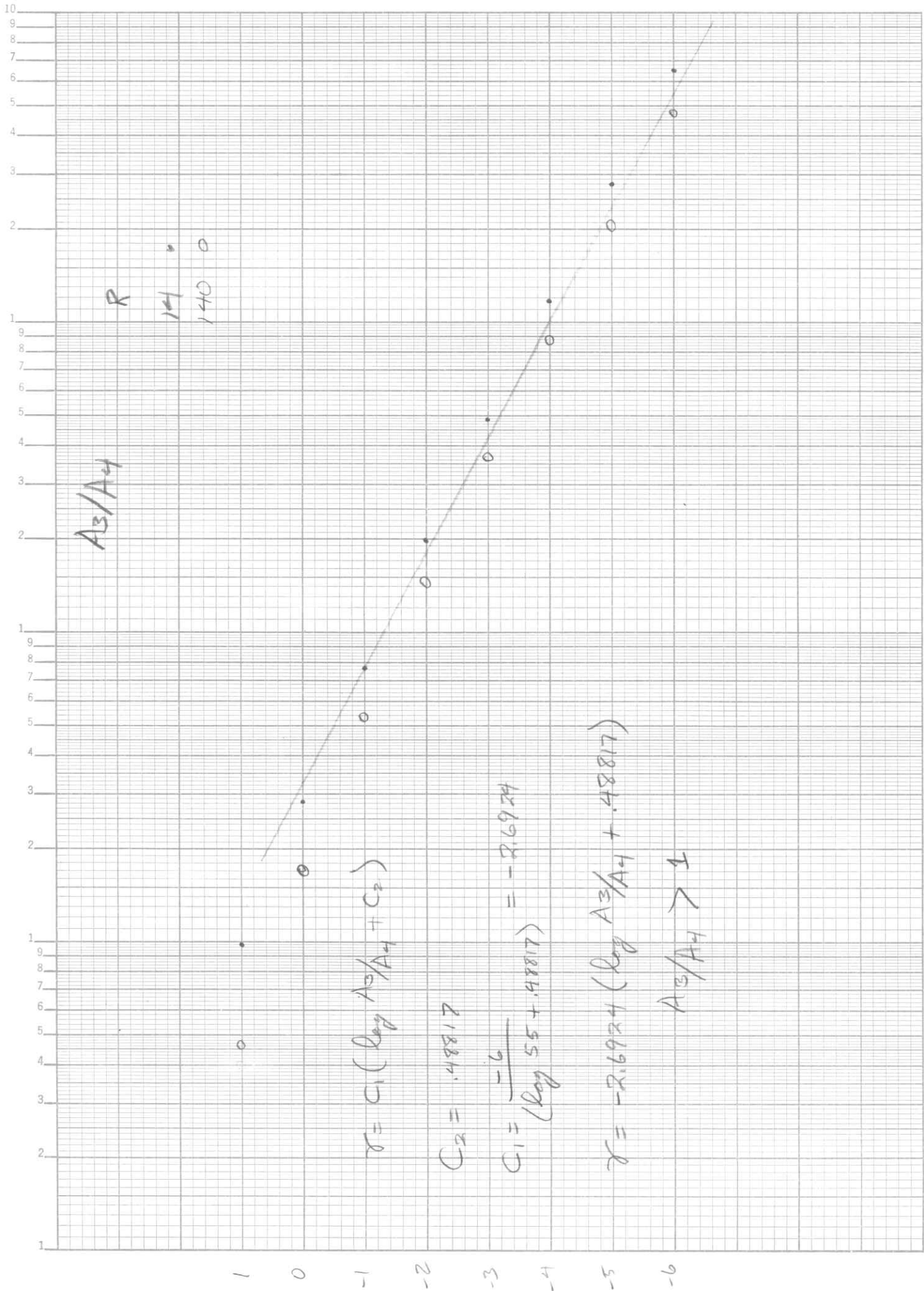
1 0 -1 -2 -3 -4 -5 -6

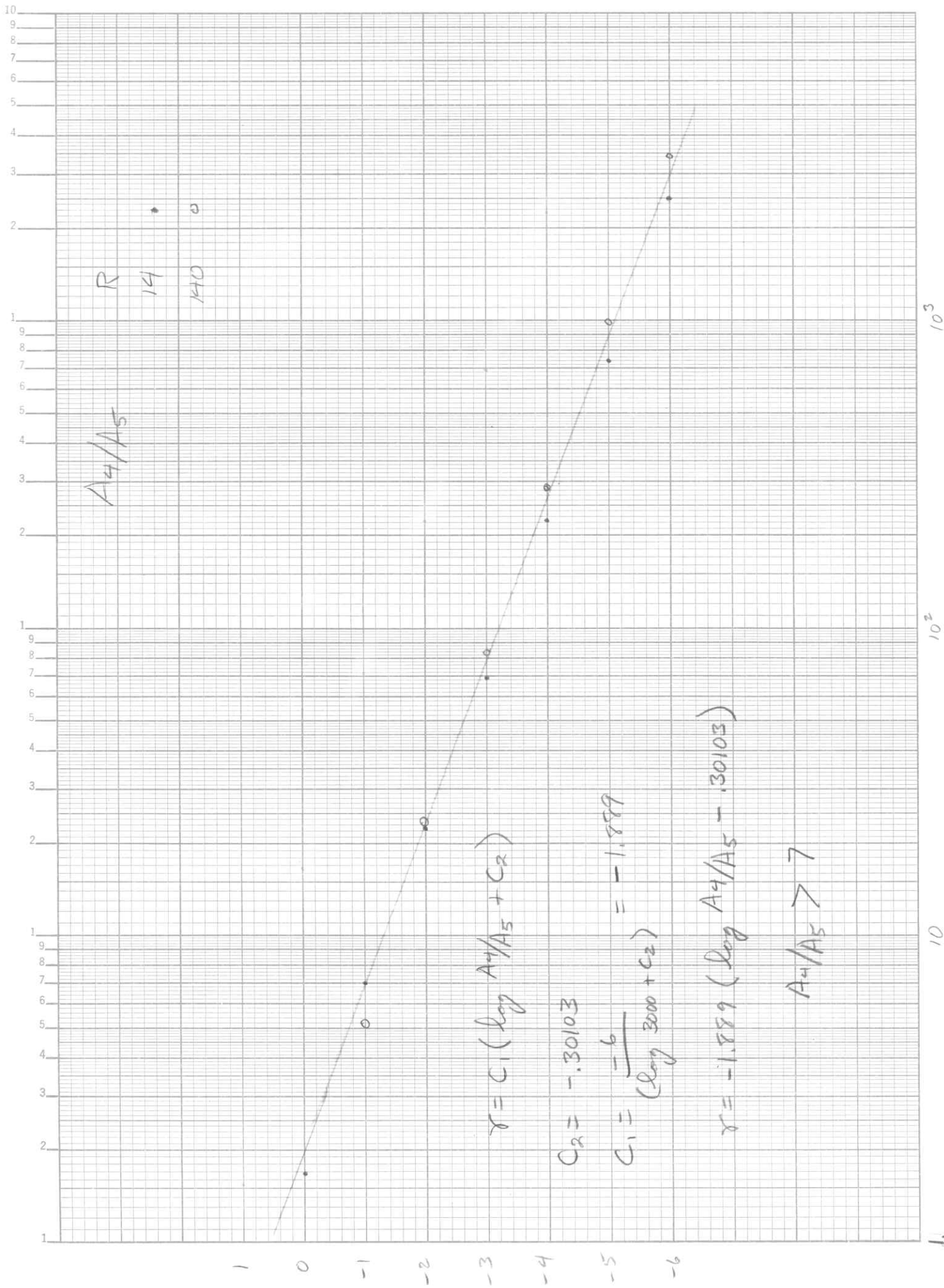


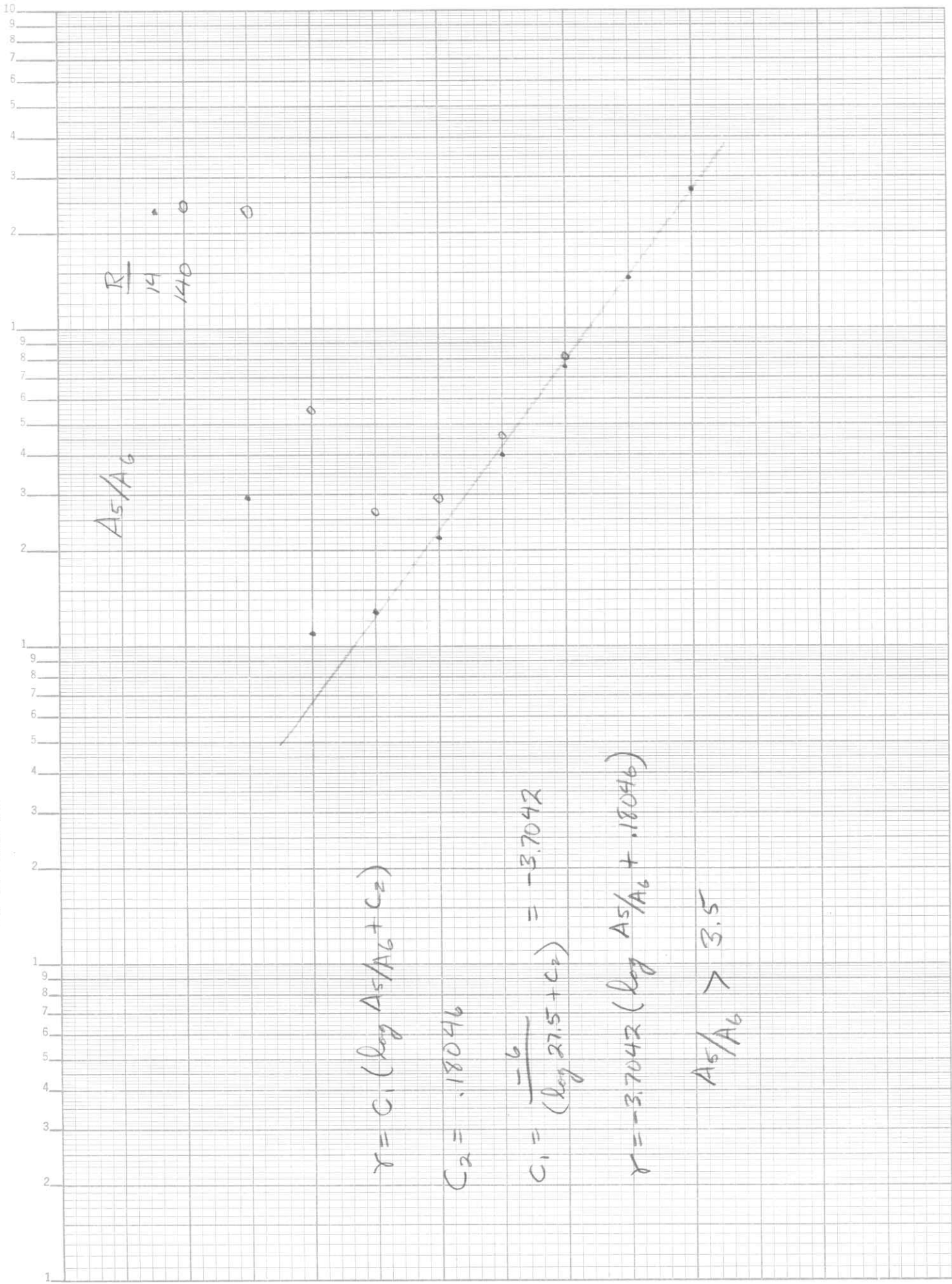
10

P_a/P_{10}

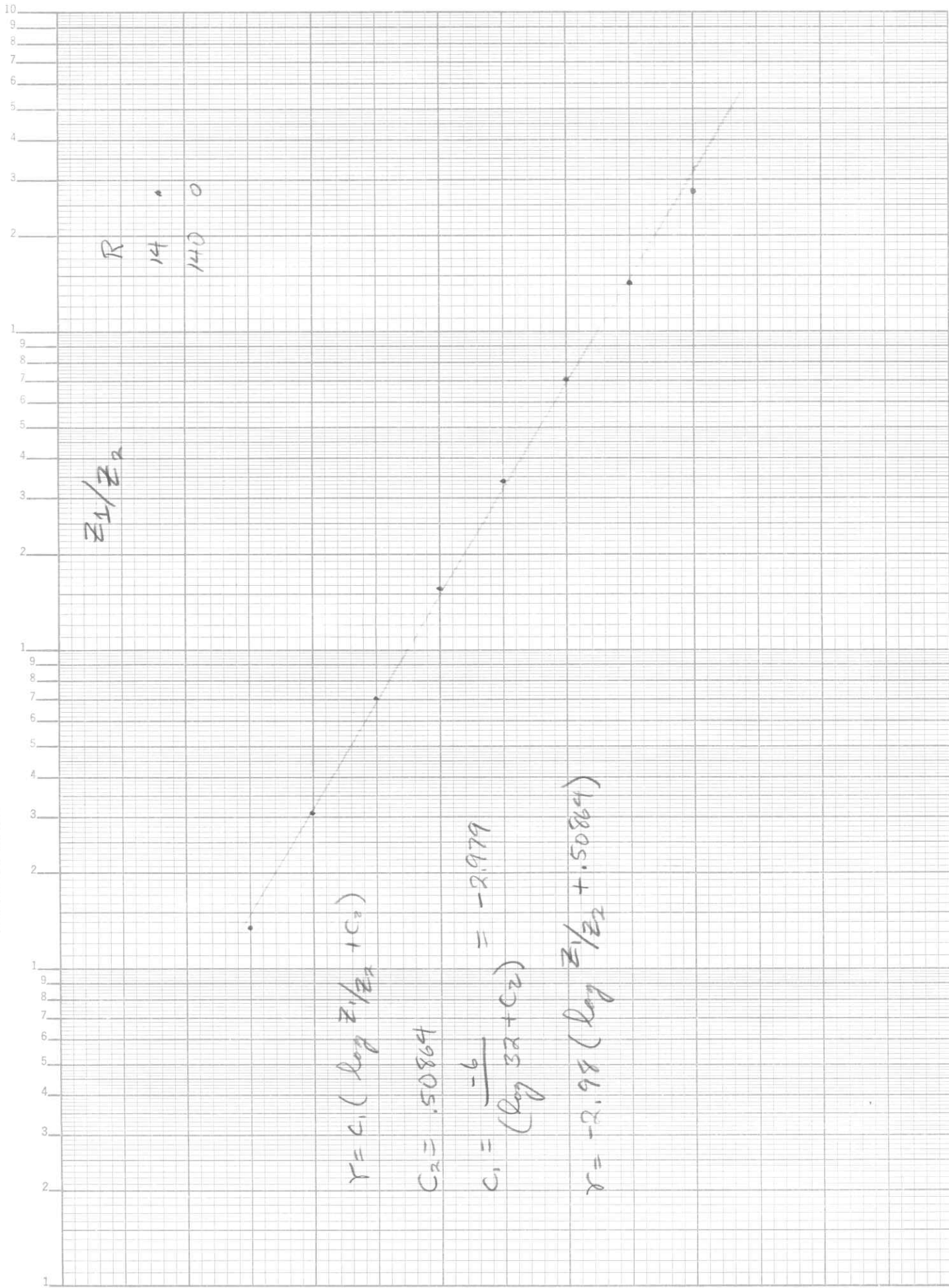
.1

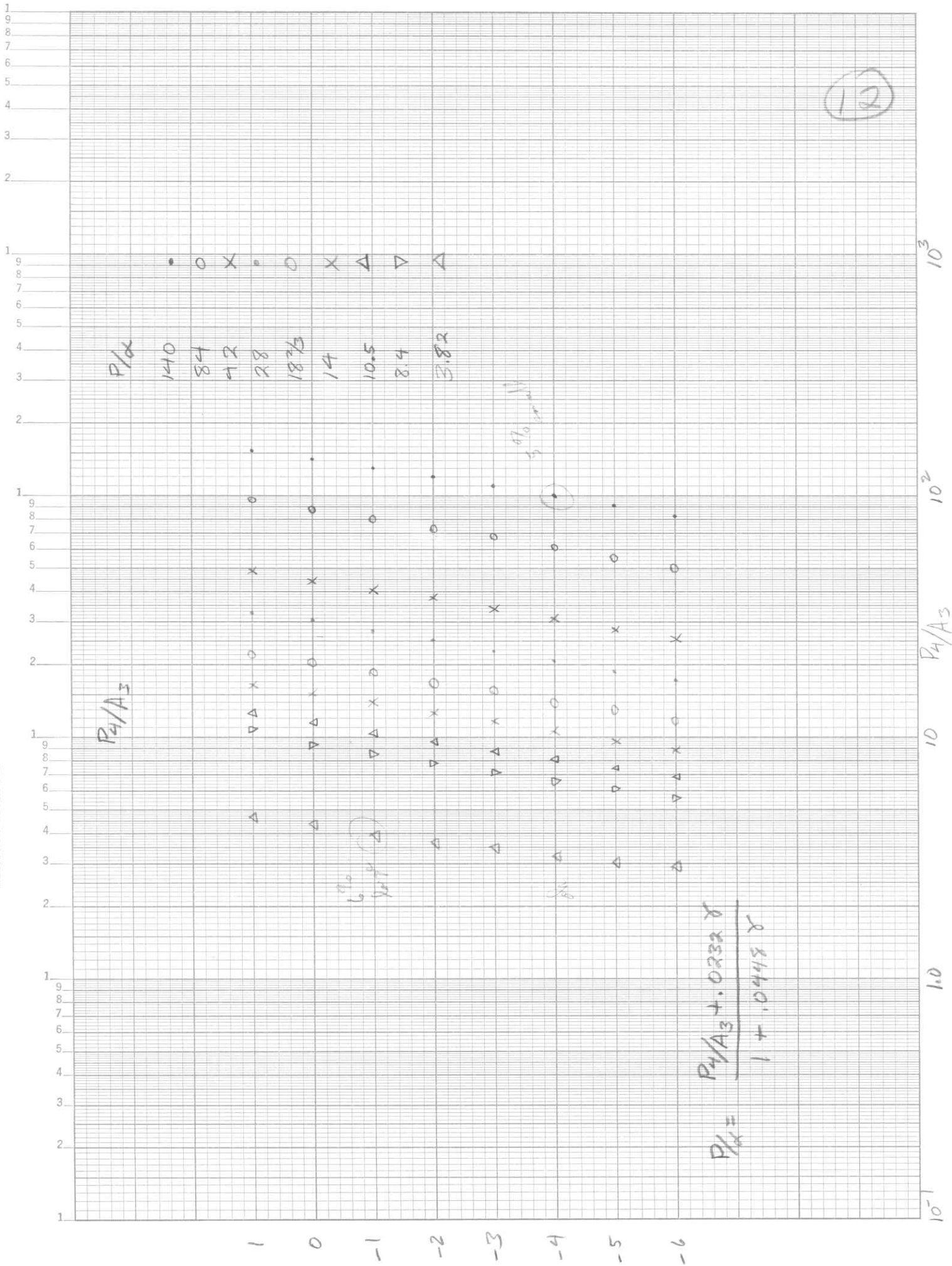




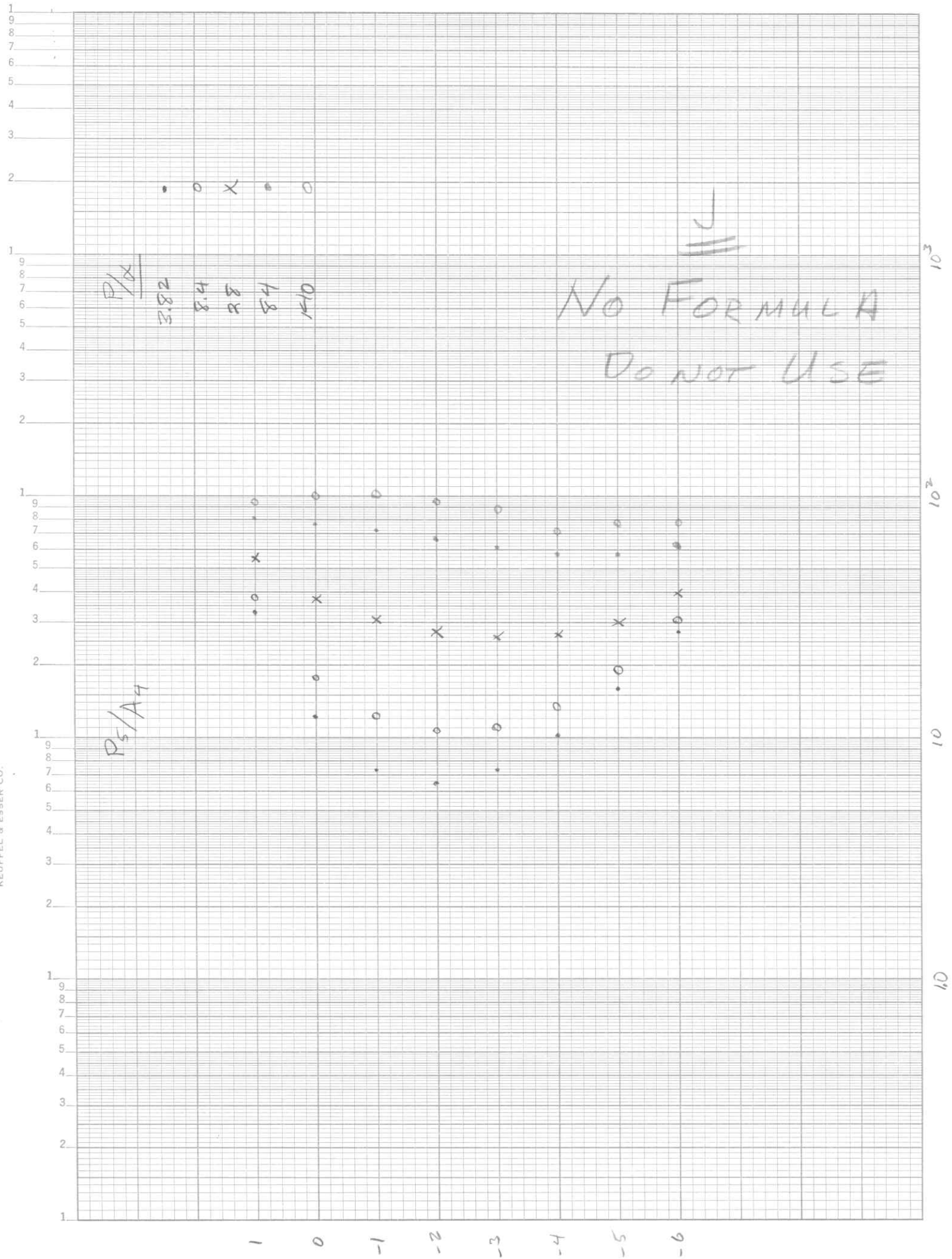


10
1
10





$$P_4/A = \frac{P_4/A_3 + 0.232 \gamma}{1 + 0.448 \gamma}$$

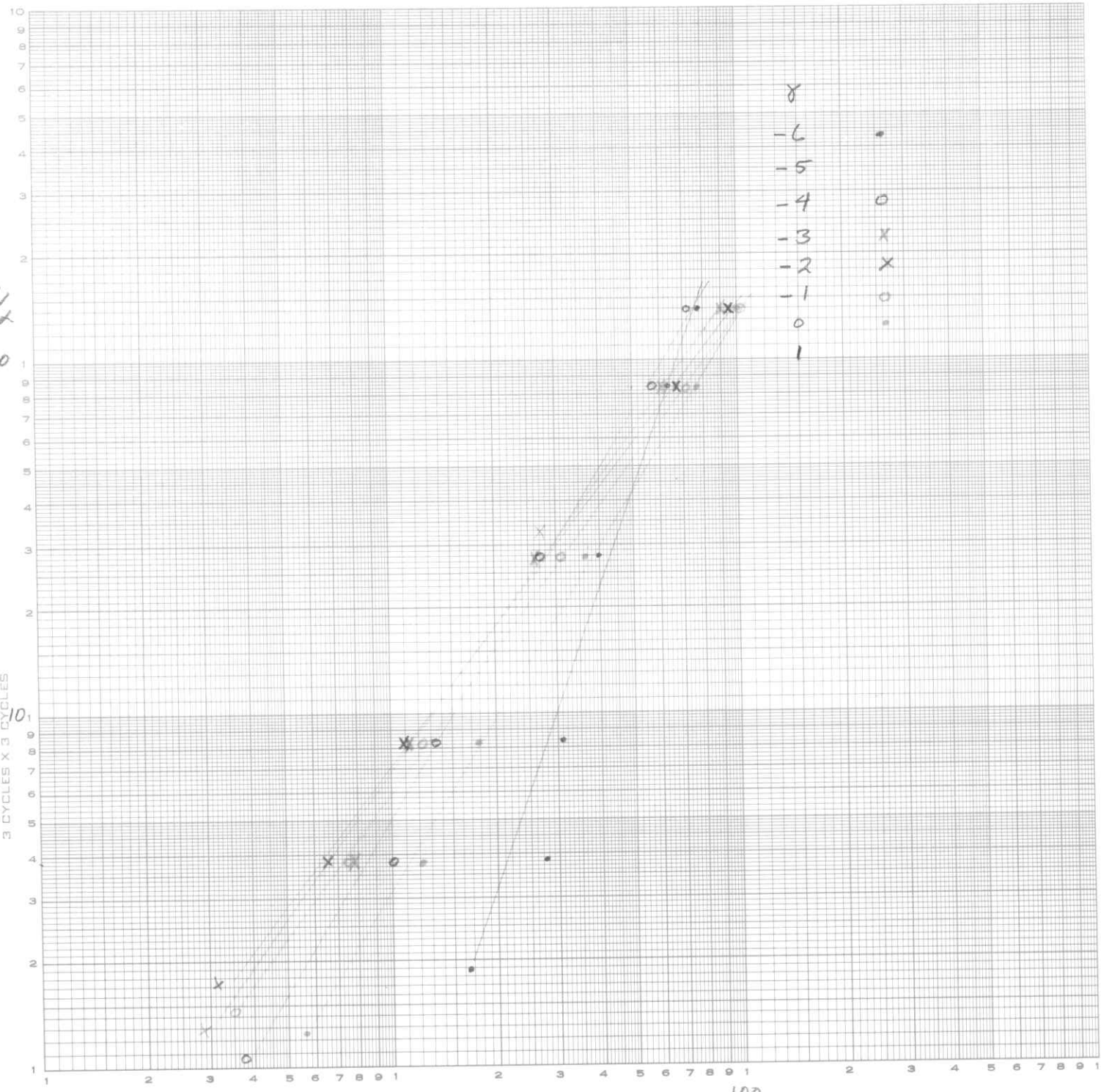


1
0
-1
-2
-3
-4
-5
-6

10³
10²
10
10

MADE IN U.S.A.
P/A
100

LOGARITHMIC
3 CYCLES X 3 CYCLES



8
-6
-5
-4
-3
-2
-1
0
1

10

100

College Bookstore
C12CNT'S
Ticket Must Be
Attached For Return
.03

P5/A4

$$y = ax + b$$

$$y = \log P/\alpha \quad x = \log P_5/A_4$$

$$a(\gamma) = ? \quad b(\gamma) = ?$$

$$\gamma = -6 \quad 30 \leq P_5/A_4 \leq 80$$

$$1 = a(1.477) + b$$

$$2 = a(1.8261) + b$$

$$a = \frac{2 - 1.477}{1.8261 - 1.477} = \underline{\underline{2.8645}}$$

$$b = \underline{\underline{-3.231}}$$

$$\gamma = -4 \quad 12 \leq P_5/A_4 \leq 75$$

$$0 = a + b$$

$$2 = 1.7924 a + b$$

$$a = \frac{2 - 0}{1.7924 - 1} = \underline{\underline{1.6419}}$$

$$b = \underline{\underline{-.9429}}$$

$$\gamma = -3$$

$$x \quad 1.8325 = a + b$$

$$2 = 1.8451 a + b$$

$$a = \frac{2 - 1.8325}{1.8451 - 1.8325} = \underline{\underline{.1982}}$$

$$b = \underline{\underline{1.6343}}$$

$$\gamma = -2$$

$$x \quad 1.8451 = a + b$$

$$2 = 1.875 a + b$$

$$a = \frac{2 - 1.8451}{1.875 - 1.8451} = \underline{\underline{.19143}}$$

$$b = \underline{\underline{1.6537}}$$

$$\gamma = -1$$

$$0 = 1.771 = a + b$$

$$2 = 1.9031 a + b$$

$$a = \frac{2 - 1.771}{1.9031 - 1.771} = \underline{\underline{.25357}}$$

$$b = \underline{\underline{1.51743}}$$

$$\gamma = 0$$

$$1.50515 = a + b$$

$$2 = 1.92942 a + b$$

$$a = \frac{2 - 1.50515}{1.92942 - 1.50515} = \underline{\underline{.53243}}$$

$$b = \underline{\underline{.97272}}$$

