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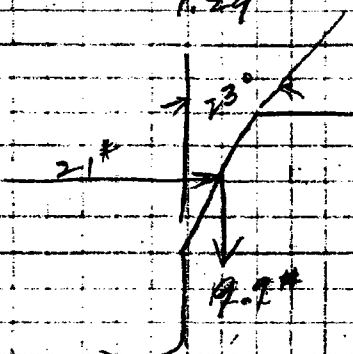
12-20-44

SUBJECT OF EXPT.

New Sec. & Safety

(cont.) Calc on old sec. & Safety

$$\text{Actual } L = \frac{8.5(1.5)}{1.29} = 9.9''$$



4.31 = ADVANTAGE

$$3.6(1.26) + 22.8(4.11) - 2(129)(\frac{1}{2}) = 11.29$$

$$4.52 + 9.35 - 2.58 = 11.29$$

$$\text{Then } L = \frac{11.29}{1.29} = 8.8''$$

$$\begin{array}{r} 11.29 \\ 9.9 \\ \hline 1.39 \\ 1.39 \\ \hline 2.78 \\ 11.29 \end{array}$$

Actual Load to put safety on = 6" off = 4.5"

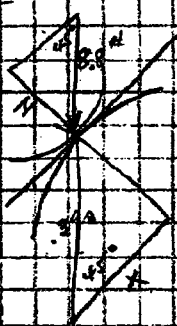
Theoretical on = 1.5" neglecting safety factor

6" includes the detent

Detent = 3.5"

$$\frac{N}{8.8} = \cos 45 = .707$$

$$N = 6.2''$$



$$\frac{X}{29.0} = \cos 45 = .707$$

$$X = 2.76$$

$$F_{\text{safety}} = \frac{2.76 \times 6.2}{.97} = 1.8''$$

$$\text{By calc } \frac{9.9}{4.3} = 2.3'' \text{ to put safe on}$$

$$\text{Actual} = 6'' - 3.5'' = 2.5''$$

EXPERIMENTER

WITNESS

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