

S4.4 #12

$$\ln(x+55) - \log(-49+x) = 0$$

Need $x+55 > 0 \Rightarrow x > -55$

and $-(49+x) > 0$

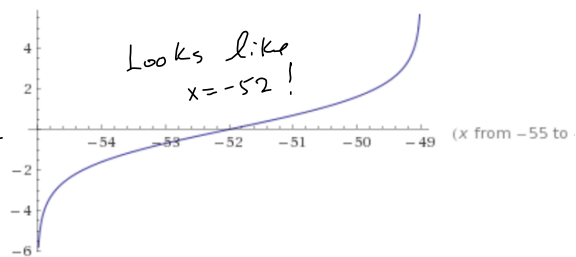
$$-49 - x > 0$$

$$-x > 49$$

$$\frac{-x}{-1} < \frac{49}{-1}$$

$$x < -49$$

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$$D = \{x \mid x > -55 \text{ and } x < -49\}$$



$$= (-55, -49)$$