

1.95
4

$$\log_x 3 \cdot \log_{12x-8} \frac{5-12x}{12x-8} \leq \frac{1}{2}$$

$$\frac{\log 3}{\log x} \cdot \frac{\log \frac{5-12x}{12x-8}}{2 \log 3} \leq \frac{1}{2}$$

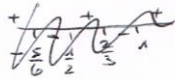
$$\frac{1}{2} \log x \cdot \frac{5-12x}{12x-8} \leq \frac{1}{2} \quad /: \frac{1}{2}$$

$$\log x \cdot \frac{5-12x}{12x-8} \leq 1 = \log_x x$$

$$(x-1) \left(\frac{5-12x}{12x-8} - x \right) \leq 0$$

$$\Rightarrow \frac{(x-1)(-12x^2-4x+5)}{12x-8} = \frac{(x-1)(-2x+1)(6x+5)}{12x-8}$$

-	+	-	+	-
-1	1	-1	1	-1
-1/6	1/2	2/3	1	



$$\frac{1}{2} \leq x < \frac{2}{3}$$

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היחסים בין המספרים הנ"ל:

המקום המאפשר
1 ≠ x > 0

$$\frac{1}{12} + \frac{1}{2} = \frac{1}{6}$$

$$\frac{5-12x}{12x-8} > 0$$

$$\frac{5}{12} < x < \frac{2}{3}$$

: Also f