

1.53  
1

$$x^{2 \log^3 x - 1.5 \log x} > \sqrt{10} \quad | \log_{10}$$

מגדלים  
 $x > 0$

$$(2 \log^3 x - 1.5 \log x) \log x > \log \sqrt{10} = \frac{1}{2} \log 10 = \frac{1}{2}$$

$$(2t^3 - 1.5t)t > \frac{1}{2} \quad | \cdot 2$$

$$\log x = t \quad | \text{מוכ}$$

$$4t^4 - 3t^2 - 1 > 0$$

$$t^2 = A$$

$$4A^2 - 3A - 1 > 0$$

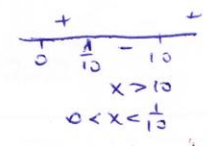


-1/4 < A < 1  
A < 1/4  
A < 1/10

$$A = t^2 = -\frac{1}{4} \rightarrow \emptyset$$

$$A = t^2 = 1 \rightarrow t = \pm 1$$

$$\log x = \pm 1 \rightarrow x = 10, \frac{1}{10}$$



פחות מ-10