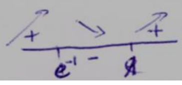
4.2
5

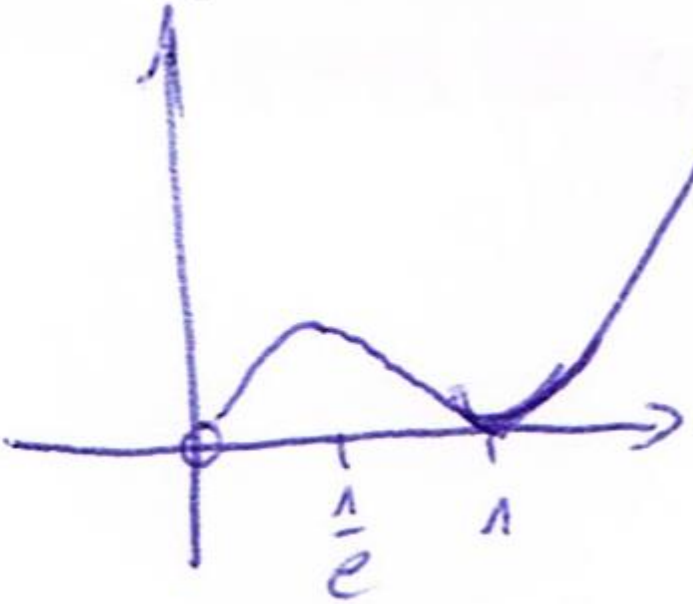
$y=x^2\ln^2x \quad 0<x$

חיתוך עם ציר ה-x $(1,0)$

$y'=2x\ln^2x+\frac{x^2\cdot 2\ln x}{x}=2x\ln x(\ln x+1)\overset{\text{קיצון}}{=}0$

$\cancel{x=0} \quad x=1 \quad x=\frac{1}{e}$



עולה: $x>1$ $0<x<e^{-1}$ **יורדת:** $e^{-1}<x<1$ $\max(\frac{1}{e},\frac{1}{e^2})$ $\min(1,0)$