

1.81

pl

$$\sqrt[3]{x} + \sqrt[3]{|x|} \geq 2x$$

plm  
 $x \geq 0$

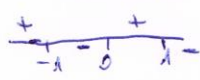
$$\sqrt[3]{x} + \sqrt[3]{x} \geq 2x$$

$$2\sqrt[3]{x} \geq 2x \rightarrow \sqrt[3]{x} \geq x \quad |(\cdot)^3$$

$$x \geq x^3$$

$$0 \leq x - x^3 = x(1 - x^2) = x(1 - x)(1 + x)$$

$0 \leq x < 1$  (für plm für  $x \geq 0$ )



plm  
 $x < 0$

$$\sqrt[3]{x} - \sqrt[3]{|x|} \geq 2x$$

$$0 \geq 2x$$

$$0 \geq x$$

$x \leq 1$  : also ok