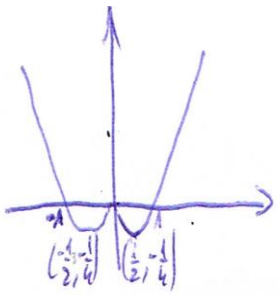
ס.ב
3

$y = x^2 - |x|$

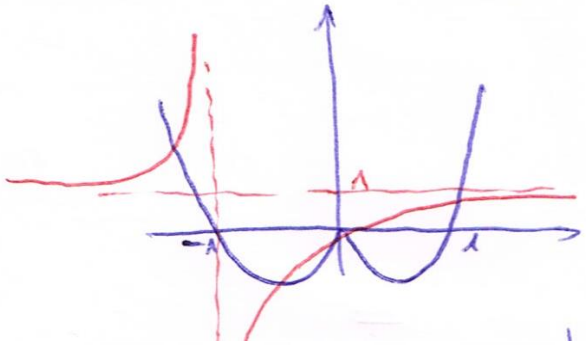
$x \geq 0 \quad y = x^2 - x$

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



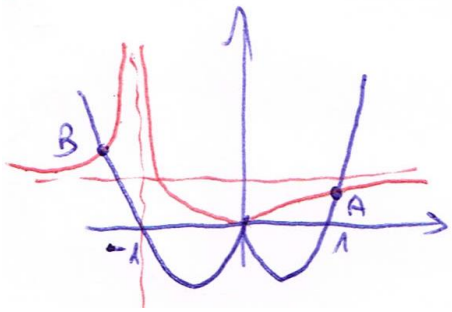
גרף הפונקציה

$\frac{x}{1+x}$



גרף הערכים של

$\left|\frac{x}{1+x}\right|$



(7) למצוא את הקבוצות A ו- B:

B: $\frac{x}{1+x} = x^2+x \rightarrow \frac{x}{1+x} = x(1+x)$

$0 = x\left(\frac{1}{1+x} - 1 - x\right)$

$x=0$ ⇙ ⇘ $1-1-2x-x^2=0$

$x=0,\ \boxed{x=-2}$

A: $\frac{1-x}{1+x} = x^2-x \rightarrow \frac{1-x}{1+x} = x(x-1)$

$x\left(x-1+\frac{1}{1+x}\right)=0$

$x=0$ ⇓ $x^2-1+1=0 \rightarrow x=\pm\sqrt{2}$ $A(\sqrt{2},)$

מהשרטוט ניתן לראות שהתחום המבוקש

$0<x<\sqrt{2}$, $-1<x<0$, $-2\leq x<-1$

A B