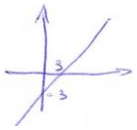
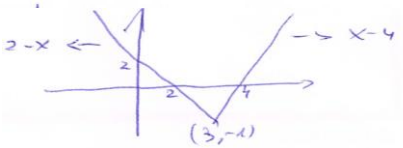
0.24
4

$y = x-3$

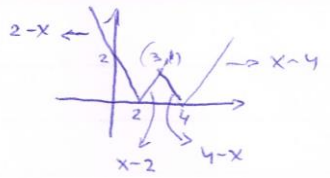


$y = |x-3|$

$y = |x-3|-1$



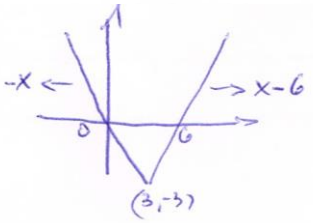
$y = ||x-3|-1|$



סכמה:

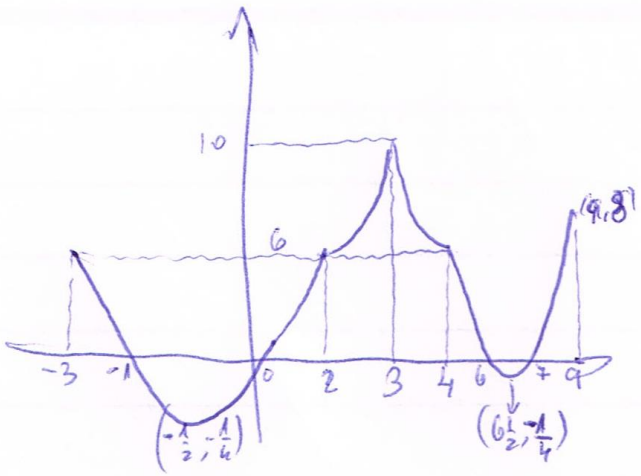
$$y = \left||x-3|-1\right| = \begin{cases} x-4 & x \geq 4 \\ 4-x & 3 \leq x < 4 \\ x-2 & 2 \leq x < 3 \\ 2-x & x < 2 \end{cases}$$

$y = |x-3|-3$



$$y = (|x-3|-3)^2 = \begin{cases} (x-6)^2 & x \geq 3 \\ x^2 & x < 3 \end{cases}$$

נמצא את הביטוי לפי התחומים:

$$y = (|x-3|-3)^2 - ||x-3|-1|+2 = \begin{cases} (x-6)^2-(x-4)+2 = x^2-13x+42 & x \geq 4 \\ (x-6)^2-(4-x)+2 = x^2-11x+34 & 3 \leq x < 4 \\ x^2-(x-2)+2 = x^2-x+4 & 2 \leq x < 3 \\ x^2-(2-x)+2 = x^2+x+2 & x < 2 \end{cases}$$

(סרטט) את הגרף לפי התחומים: