

Name:

Result:

**1.***(4 points)*

Solve the following equations:

(a)  $4|2x + 1| - 3 = 5$

(b)  $3|x - 2| + 9 = 7$

(c)  $\frac{|x - 1| + 3}{2} + \frac{|1 - x| - 1}{3} = 3$

**2.** *(2 points)*  
The price of a certain item has been first increased by 20% and then decreased by 30%. Find the total percentage change in the price of this item.

**3.** *(2 points)*  
The price of a certain item has been first increased by 10% and then again by 25%. If the final price is 825 PLN, find the initial price.

**4.** *(2 points)*  
The price of a certain item was 840 PLN. It has been increased by  $p\%$  twice. Calculate  $p$ , if the final price is 1646.4 PLN.