## **CONSUMER SURPLUS**

## Problem #1

Katie is a young lady who only cares about clothes and make-up. Her utility function may be represented by  $U = cosmethics^{0.4}*clothes^{0.6}$ . She earns 3500 zloty a month, while the average prices of each of these goods oscillate around 20 zloty. Her boss wants to move her to another town where  $P_{cosmethics} = 20 zloty$  and  $P_{clothes} = 40 zloty$ . However, he is not planning to change her wage. Katie knows some microeconomics (compensatory and equivalent changes). She believes that moving to another city is just as bad as cutting her wage by A zloty. On the other hand, she would not mind being transferred if her wage increased by B zloty. Find A and B.