## CLASS \#13

## 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 $P_{\text {cosmethics }}=20$ zloty and $P_{\text {clothes }}=40$ 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 $B$.

