Adding angles

Assume for this worksheet that we are in Euclidean Space.

We can define several angles given a polygon. We are pretty familiar with the "inside" angles. Let the "change" angle be the angle of rotation when pivoting or changing from one side to another as we travel clockwise around the polygon. Both angles are identified in the figure to the right.



1. [5] Find the sum of "change" angles for a polygon with n sides. Justify your answer.

2. [4] Use the results from above to find the sum of "inside" angles for a polygon with n sides. *Justify* your answer.