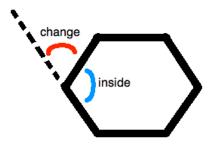
Adding angles

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.

Consider a shape like that shown below. Note that this shape is *still* a polygon. Review your answers above to make sure your justification for each problem still work for shapes like this!

