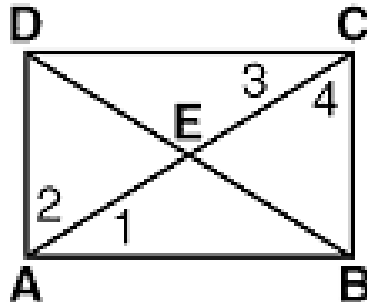


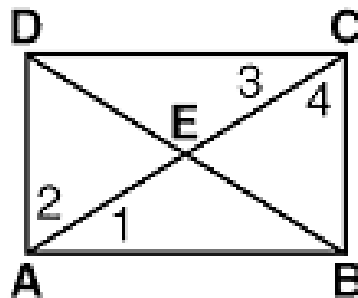
Properties of Rhombuses Rectangles and Squares Bell Work

Rectangles

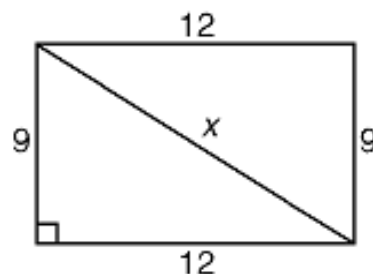
1. In the diagram below, ABCD is a rectangle with diagonals \overline{AC} and \overline{BD} . If the $m\angle 2 = 58^\circ$, find the measures of angles 1, 3, and 4.



2. In the diagram below, ABCD is a rectangle with diagonals \overline{AC} and \overline{BD} . If $AC = 6x + 2$ and $DB = 12x - 10$, find the value of x .



3. Use the information marked on the figure to find the value of x .



[Draw a picture!]

4. In rectangle ABCD, diagonals \overline{AC} and \overline{BD} intersect at point E. If $AE = 20$ and $BD = 2x + 30$, find x .