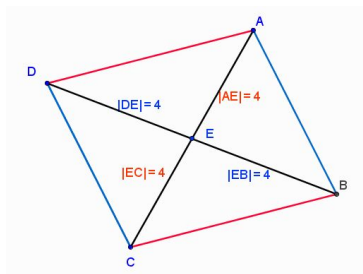# Student Activity Theorem 10

Use in connection with interactive file "Theorem 10" on the Student's CD.

1. ABCD is a parallelogram. Drag the point D to the left and then write down the lengths of the following line segments

   [AE] = _____

   [EC] = _____

   [DE] = _____

   [EB] = _____

   Is the length of [AE] = the length of [EC]? _____

   Is the length of [DE] = the length of [EB]? _____

2. ABCD is a parallelogram. Drag the point A to the right and then write down the lengths of the following line segments

   [AE] = _____

   [EC] = _____

   [DE] = _____

   [EB] = _____

   Is the length of [AE] = the length of [EC]? _____

   Is the length of [DE] = the length of [EB]? _____

3. ABCD is a parallelogram. Drag the point A to make the length of [AE] = 3

   Is the length of [AE] = [EC]? _____

   Is the length of [DE] = [EB]? _____

4. Write down in your own words what conclusion can be drawn from the answers to questions 1, 2 and 3 _____

   _____

5. Click on the Tick Box on the interactive file to reveal the wording of this theorem.

   Did you come to this conclusion? _____.