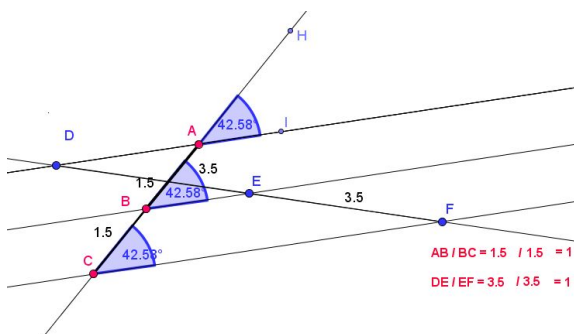# Student Activity Theorem 11

Use in connection with interactive file "Theorem 11" on the Student's CD.

(Higher Level only)

1. What is meant by parallel lines and name three sets of parallel lines in the interactive file?

    _____

2. How can you tell that the lines selected by you in Q.1 above are parallel in the interactive file?   _____

    _____

3. What is meant by a transversal line and name two transversal lines in the interactive file?   _____

4. What are the lengths of AB and BC in the interactive file? Are they equal?

    _____

5. What are the lengths of DE and EF in the interactive file? Are they equal?
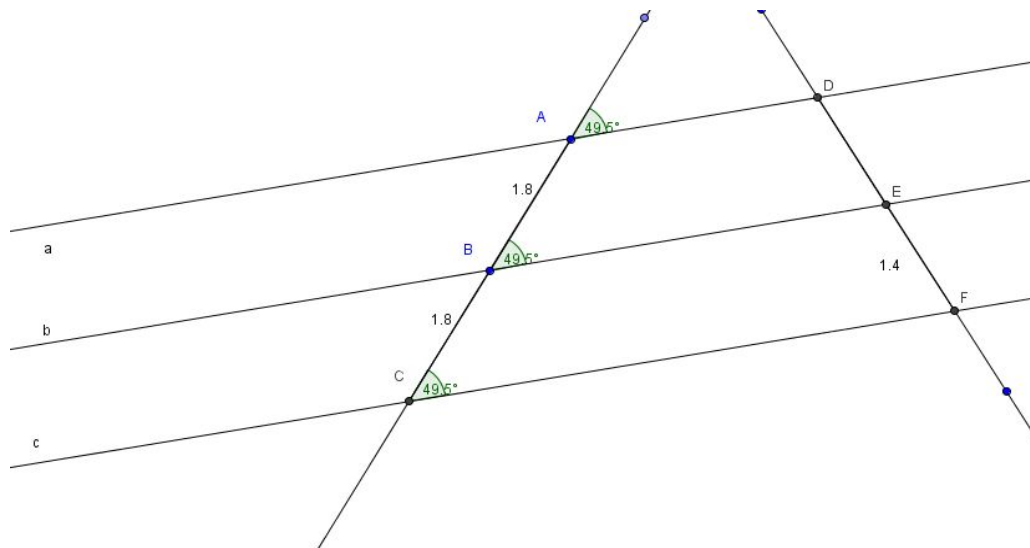
    _____

    _____

6. Move the point A and see what the ratio of AB : BC is and calculate the ratio of

   DE: EF for the same location. Repeat for three different locations. Show calculations.

   _____

   _____

   _____

7. Did you see a pattern develop in question 6 and if so explain it in your own words?

   _____

   _____

8. Click on the Tick Box to show the wording of this theorem.
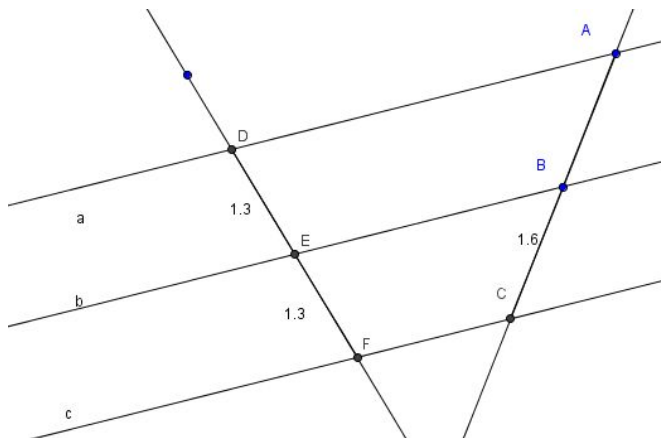
   Explain in your own words the meaning of this theorem._____

   _____

   _____

9. In the diagram below, if you know lines a, b and c are parallel, find the length of DE.

   Explain your answer. _____

   _____

10. In the diagram below, if you know lines a, b and c are parallel, find the length of AB.

Explain your answer. _____

_____

_____