

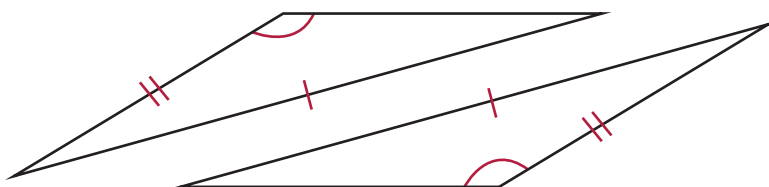
Unit 4: Geometry Lesson 4.3



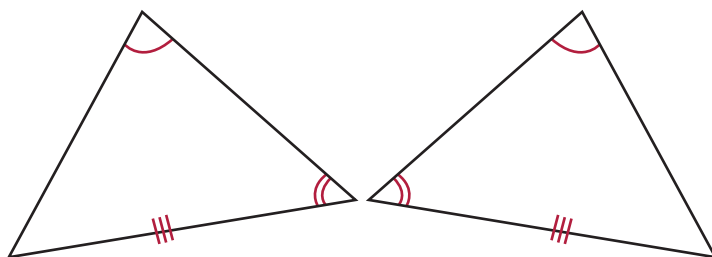
Game On!

2. 1. Can it be concluded that the following pairs of triangles are congruent? Explain.

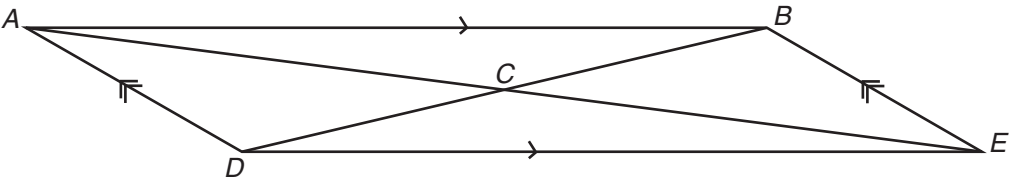
a.



b.



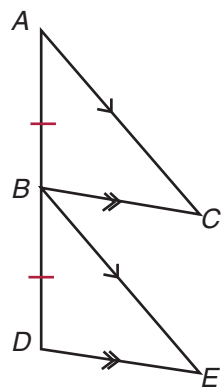
- 2
2. Troy has written a proof showing that the diagonals of a parallelogram are equal in length. The diagonals of a parallelogram are not necessarily equal so Troy must have made an error. Identify and explain his error.



Statement	Justification
$AB = ED$	Opposite sides of parallelogram
$\angle BAE = \angle AED$	Alternate interior angles
$\angle ABD = \angle BDE$	Alternate interior angles
$\triangle ABC \cong \triangle EDC$	ASA
$BC = EC$	Corresponding sides of congruent triangles
$AC = DC$	Corresponding sides of congruent triangles
$AE = BD$	$AC + CE = DC + CB$

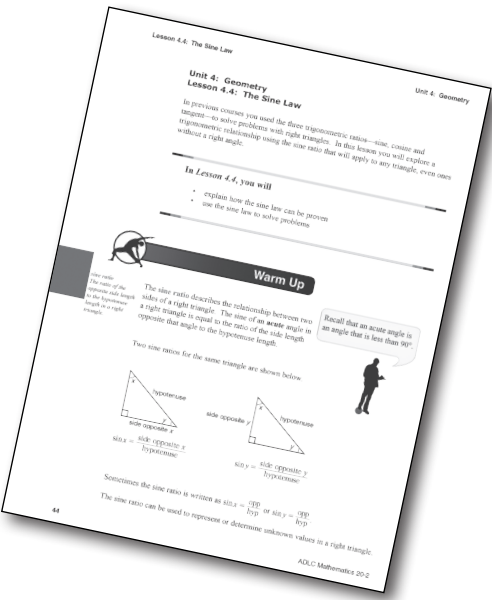
- 3
3. Explain why knowing a combination of four pairs of equal sides or equal angles guarantees one of the congruence relationships.

- 4
4. Prove $\triangle ABC \cong \triangle BDE$.



Statement	Justification

You have completed *Lesson 4.3 Game On!* Please review all work in *Workbook 4A* to ensure it is your best work. Submit *Workbook 4A* for marking at this time and proceed to *Lesson 4.4* in the *Module*.



End Of Workbook 4A