Lesson 5: Identical Triangles

Problem Set

Given the following triangle correspondences, use double arrows to show the correspondence between vertices, angles, and sides.

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| **Triangle Correspondence** |  |
| Correspondence of Vertices |  |
| Correspondence of Angles |  |
| Correspondence of Sides |  |

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| **Triangle Correspondence** |  |
| Correspondence of Vertices |  |
| Correspondence of Angles |  |
| Correspondence of Sides |  |

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| **Triangle Correspondence** |  |
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| Correspondence of Angles |  |
| Correspondence of Sides |  |

Name the angle pairs and side pairs to find a triangle correspondence that matches sides of equal length and angles of equal measurement.

1. 
2. 



1. Consider the following points in the coordinate plane.
   1. How many different (non-identical) triangles can be drawn using any three of these six points as vertices?
   2. How can we be sure that there are no more possible triangles?
2. Quadrilateral is identical with quadrilateral with a correspondence , ,   
   and .
   1. In the figure below, label points , , , and on the second quadrilateral.

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* 1. Set up a correspondence between the side lengths of the two quadrilaterals that matches sides of   
     equal length.
  2. Set up a correspondence between the angles of the two quadrilaterals that matches angles of equal measure.