Tell whether the triangles are similar.

1.  

2.  

3.  

4. List the pairs of figures that appear to be similar.

   a.  

   b.  

   c.  

   d.  

   e.  

   f.  

   g.  

   h.  

For Exercises 5 and 6, graph the coordinates of the quadrilateral $ABCD$. Find the coordinates of its image $A'B'C'D'$ with the given scale factor.

5. $A(2, -2), B(3, 2), C(-3, 2), D(-2, -2)$;  
   scale factor 2

6. $A(6, 3), B(0, 6), C(-6, 2), D(-6, -5)$;  
   scale factor $\frac{3}{2}$

7. Quadrilateral $A'B'C'D'$ is similar to quadrilateral $ABCD$. Find the scale factor.