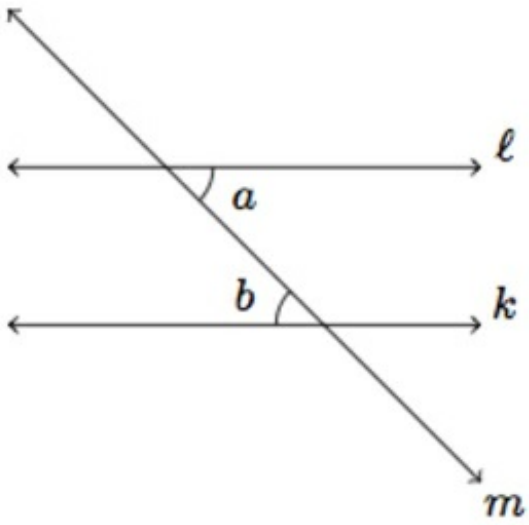
8.G Rigid motions and congruent angles

Task

In the picture below, ℓ and k are parallel lines:



a. Show that angle a is congruent to angle b using rigid motions.

b. Which other angles, made by the intersection of ℓ and m or by the intersection of k and m, are congruent to a? Explain using rigid motions.

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