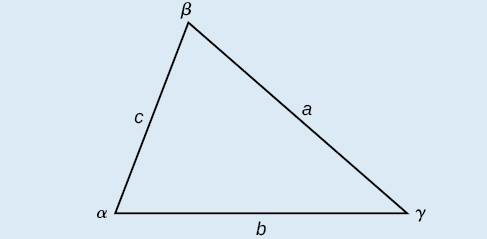
Law of Cosines

Trigonometry

# Law of Cosines

## Fact – Law of Cosines



For triangles labeled as the triangle to the right, with angles , , and , and opposite corresponding sides , , and , respectively, the Law of Cosines is given as three equations.

## Examples

For the following exercises, assume the angles and sides are as in the triangle above. Solve each triangle. Round to the nearest tenth.

1. , ,
2. , ,
3. , ,
4. , ,

## You Try It

For the following exercises, assume the angles and sides are as in the triangle above. Solve each triangle. Round to the nearest tenth.

1. , ,
2. , ,
3. , ,
4. , ,