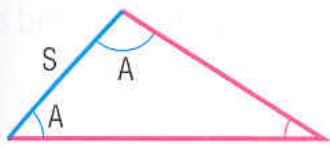
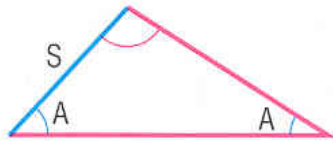


## 8.2 The Law of Sines

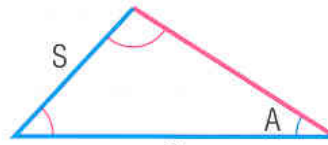
The law of sines is used to solve for missing sides or angles of triangles when we have the following three cases:



ASA – Angle Side Angle



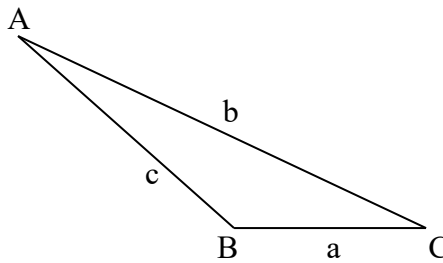
SAA – Side Angle Angle



SSA – Side Side Angle

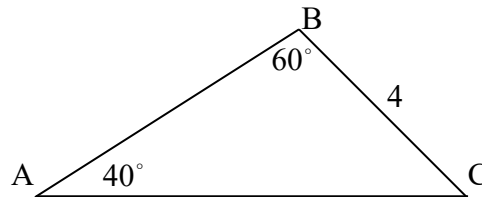
### Law of Sines

$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

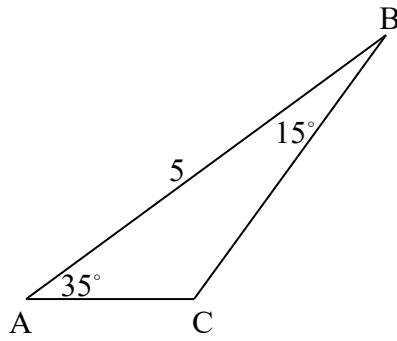


Usually you will only use two parts of the above formula, but all three ratios are equal.

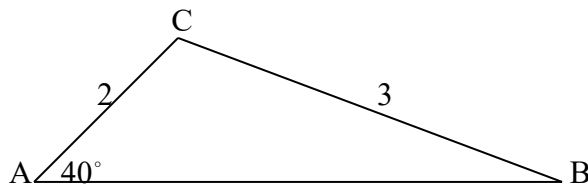
EXAMPLE: Solve the triangle:



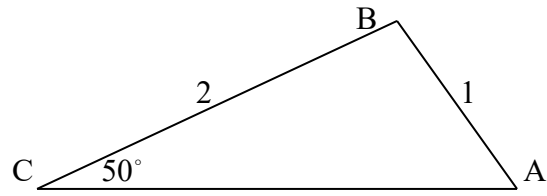
EXAMPLE: Solve the triangle:



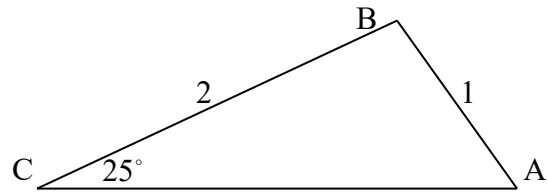
EXAMPLE: Solve the triangle:



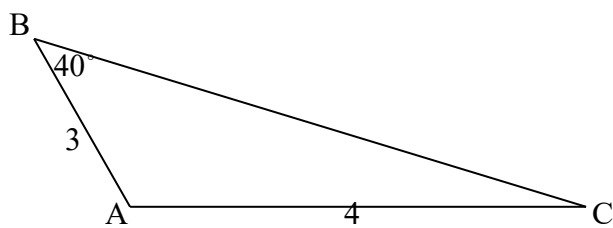
EXAMPLE: Solve the triangle:



EXAMPLE: Solve the triangle:



EXAMPLE: Solve the triangle:



EXAMPLE: Solve the triangle:

