**Summary:**

1 variation. Sin, cos and tan ratios. Area of triangle.

**Question:**

<EFOFEX>
id:fxd{5bc63d8a-6d85-4493-81d7-bc2d7a4c393a}

FXData:
</EFOFEX>This triangle has been divided so that the area of the blue (right) side is <EFOFEX>
id:fxe{db4820fe-6192-485d-92e9-d0d768af6c7d}

FXData:

</EFOFEX> times the area of the red (left) side. What are the angles of triangle ABC?

**Solution:**

This triangle has been divided so that the area of the blue (right) side is <EFOFEX>
id:fxe{db4820fe-6192-485d-92e9-d0d768af6c7d}

FXData:

</EFOFEX> times the area of the red (left) side. What are the angles of triangle ABC?

Assume sides to be one as shown.

<EFOFEX>
id:fxe{eba3a30d-e872-4219-906b-01ff5fb76784}

FXData:

</EFOFEX>

<EFOFEX>
id:fxe{5fb75aa6-7acf-419b-b938-cf29488f3b54}

FXData:

</EFOFEX>

Angles are 45°, 35.3° and 99.7°