Question # 1 Solve the following triangle ABC in which:
$b=95, \quad c=34, \quad \alpha=52^\circ.$

Question # 2 Solve the following triangle ABC in which:
$b=12.5 \ , \ c=23 \ , \ \alpha=38^\circ 20'$

Question # 3 Solve the following triangle ABC in which:
$a=\sqrt{3}-1=0.732 \ , \ b=\sqrt{3}+1=2.732 \ , \ \gamma=60^\circ$

Question # 4 Solve the following triangle ABC in which:
$a=3 \ , \ b=6 \ , \ \gamma=36^\circ 20'$

Question # 5 Solve the following triangle ABC in which:
$a=7 \ , \ b=3 \ , \ \gamma=38^\circ 13'$

Question # 6 Solve the following triangle, using first law of tangent and then law of sines:
$a=36.21 \ , \ b=42.09 \ , \ \gamma=44^\circ 29'$

Question # 7 Solve the following triangle, using first law of tangent and then law of sines:
$a=93, \quad c=101, \quad \alpha=80^\circ$

Question # 8 Solve the following triangle, using first law of tangent and then law of sines:
$b=14.8, \ c=16.1, \quad \alpha=42^\circ 45'$

Question # 9 Solve the following triangle, using first law of tangent and then law of sines:
$a=319, \ b=168, \quad \alpha=110^\circ 22'$

Question # 10 Solve the following triangle, using first law of tangent and then law of sines:
$b=61 \ , \ c=32 \ , \ \alpha=59^\circ 30'$

Question # 11 Measure of two sides of the triangle are in the ratio $3:2$ and they include a angle of measure 57°. Find the remaining two angles.

Question # 12 Two forces of 40N and 30N are represented by $\overline{AB}$ and $\overline{BC}$ which are inclined at an angle of $147^\circ 25'$. Find $\overrightarrow{AC}$, the resultant of $\overrightarrow{AB}$ and $\overrightarrow{BC}$.