

Trigonometry WS 5-6 answers

1. SAS,  $c = 4.61$ ,  $A = 112.6^\circ$ ,  $B = 35.23^\circ$ , area =  $10.65 \text{ units}^2$
2. SSS,  $A = 104.48^\circ$ ,  $B = 46.57^\circ$ ,  $C = 28.95^\circ$ , area =  $2.9 \text{ unit}^2$
3. AAS,  $b = 9.56$ ,  $c = 0.58$ ,  $C = 2.16^\circ$ , area =  $1.81 \text{ unit}^2$
4. SSA, no solution
5. SSS, no solution
6. ASA,  $a = 37.55$ ,  $b = 11.57$ ,  $C = 42.17^\circ$ , area =  $145.83 \text{ units}^2$
7. SSA,  $B = 37.59^\circ$  and  $142.41^\circ$ ,  $c = 10.26$  and  $2.34$ ,  $C = 116.58^\circ$  and  $11.76^\circ$ ,  
area =  $15.65 \text{ unit}^2$  and  $3.57 \text{ unit}^2$