SHOW ALL WORK!!! Unsupported answers might not receive full credit. Furthermore, please give me EXACT answers, not decimals. You have 10 minutes to complete this quiz.

Problem 1 [5 pts] Solve the equation $3 \sin 2x = 6 \sin x$ on $[0, 2\pi)$. (Hint: Double angle formula might be helpful.)

Problem 2 [5 pts] Let $\triangle ABC$ be a triangle with side lengths a, b, and c and angles A, B, and C. Given that $A = 113.2°$, $B = 25.2°$ and $c = 102$, solve for the remaining sides and angles of the triangle $\triangle ABC$. Give both exact values and approximations to one decimal place.