1. If \( f(x) = \sqrt{2 - x} \) and \( g(x) = \sqrt{x} \) find the domain of \( f \circ g \)

2. Carefully sketch \( f(x) = \sin(-x + 2\pi) - 1 \) showing at least two periods.
3. Find a quadratic equation \( f(x) \) such that \( f(1) = 18 \) and \( f(3) = f(4) = 0 \).

4. True or False: For all \( \theta \) the following holds
\[
\cot^2 \theta + \sec^2 \theta = \tan^2 \theta + \csc^2 \theta
\]