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### 5.3 Day 2 Solving Trig Equations Worksheet

Solve the following by factoring on the interval $[0,2 \pi)$. Then use a calculator/Desmos to sketch the graph of the left-hand side of the equation and verify your solution(s).

$\qquad$ Per: $\qquad$
4. Solve the following multiple-angle equation and provide all the solutions in general.

$$
2 \sin 2 x+\sqrt{3}=0
$$

5. Solve the following multiple-angle equation and provide all the solutions in general.

$$
2 \cos 3 x-1=0
$$

6. Here is a graph of the left-side of the equation for Problem 4. Explain how your solution matches the graph.

