I. A 30-foot cable is attached to the top of a pole and point on the ground. The cable makes a 50° angle with the ground. Find the height of the pole.

II. Find all \( x \) such that \( 2 \sin(2x) - \sqrt{3} = 0 \)
Rubric

I. +1 correctly interprets problem (with a picture)
   +1 sets up a correct equation using a trig function and height of pole
   +1 correctly solves for height of pole

II. +1 correctly solves for $\sin(2x)$
    +1 identifies angles that satisfy the equation (solves for $2x$)
    +1 correctly solves for $x$
    +1 proper usage of $+k\pi$ to express all solutions