SPS Problem of the Week 11/21/2020-11/28/2020

Problem 1. Since last week was a bit harder than usual, we will have an easier more approachable problem this time. Keep in mind, this is still not an *easy* problem.

Start with the set $\{3, 4, 12\}$. You are then allowed to replace any two numbers **a** and **b** with the new pair 0.6a - 0.8b and 0.8a + 0.6b. Can you transform the original set into $\{4, 6, 12\}$.