Kicker Ramps

Your brother wants to build 3 different kicker ramps for practicing tricks on his skateboard. The first ramp is 6 feet long, 4 feet wide, and 1.5 feet high. Find the steepness (slope) of this ramp, and then sketch the plans for two other ramps using boards (a) 8 feet long and 4 feet wide, and (b) 12 feet long and 6 feet wide. Decide on the height of the ramp for each and determine the steepness (slope) of all three ramps. How high do you think you could build each ramp in order to make a reasonably steep kicker ramp?

Show your work and explain your reasoning.