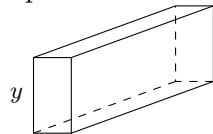


Example 1. It is known that the strength S of a wooden board is proportional to the square of the width y of the board. Write a formula for S .



Example 2. (Hughes-Hallett, 4e, 1.9#18) The surface area of a mammal, S , satisfies the equation $S = kM^{2/3}$, where M is the body mass, and the constant of proportionality k depends on the body shape of the mammal. A human of body mass 70 kg has a surface area of 18,600 cm². Find the constant of proportionality for humans. Find the surface area of a human with body mass 60 kg.