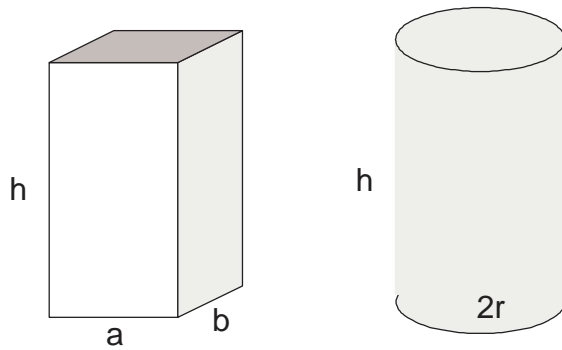


Meg 100, Problem 2.2

Analyze the two package options. Girth + longest dimension must be ≤ 130 inches



Assume quadratic cross section: $a = b$,
 thus $2 \cdot (a+a) + h = 130$, or
 $h = 130 - 4a$

$h := 1, 2, \dots, 129$

Rectangular:

$$a(h) := \frac{130 - h}{4}$$

Cylindrical Configuration:

$$r(h) := \frac{(130 - h)}{2 \cdot \pi}$$

$$\text{Vol}(h) := h \cdot a(h)^2$$

$$\text{Cyl. Volume: } aa(h) := h \cdot \pi \cdot r(h)^2$$

