April 10: Daily Vitamin

This daily vitamin will give you an opportunity to practice some of the concepts and/or calculations presented during class. The daily vitamin is not compulsory and won't be graded but remember: **if you take your vitamins, you'll be stronger for it!**

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1. Let $x, y \geq 0$ be real numbers. Determine x, y satisfying $xy = 20$ and for which $x + y$ is greatest.

   Solution:

2. Find the dimensions giving the minimum surface area of the box with volume 8cm^3, and having square base x by $x$cm and height $h$cm.

   Solution: