

Exercise. A variant of Exercise 3.2.16.

§3.2
p114

Let y_1, y_2, y_3, y_4 be real numbers. The **mean**, \bar{y} , of these four numbers is defined to be the sum of the four numbers divided by 4. That is,

$$\bar{y} = \frac{y_1 + y_2 + y_3 + y_4}{4}.$$

Prove that there exists a y_i with $1 \leq i \leq 4$ such that $\bar{y} \leq y_i$.

Hint: One way is to let y_{\max} be the largest of y_1, y_2, y_3, y_4 .

Proof. cut this out and put your proof here

