

Chapter 4. Applications of Derivatives

4.6 Applied Optimization Problems

Example. Page 268 number 2.

Note. Strategy for Solving Max–Min Problems

1. Draw a picture and label the unknowns and constants (if appropriate).
2. State the question in terms of the unknowns.
3. Find a relationship between the unknowns.
4. Write the desired quantity as a function of one unknown.
5. Maximize/Minimize the function.

Examples. Page 269 number 12, page 270 number 24, page 273 number 56.