

PROBLEM 1 Analyzing Tables



A 747 airliner has an initial climb rate of 1800 feet per minute until it reaches a height of 10,000 feet.

1. Identify the independent and dependent quantities in this problem situation. Explain your reasoning.

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2. Describe the units of measure for:
 - a. the independent quantity (the input values).
 - b. the dependent quantity (the output values).



3. Which function family do you think best represents this situation? Explain your reasoning.



4. Draw and label two axes with the independent and dependent quantities and their units of measure. Then sketch a simple graph of the function represented by the situation.

When you sketch a graph, include the axes' labels and the general graphical behavior. Be sure to consider any intercepts.

