



Lesson Objectives (p. 654):

## **Key Concepts**

1. Translating Between Multiple Representations. (p. 656)

TRANSLATING BETWEEN MULTIPLE REPRESENTATIONS	
When given a(n)	Try to
Table	
Graph	
Equation	
Verbal Description	





## Lesson Objectives (p. 654):

translate between the various representations of functions; solve problems

using the various representations of functions.

## **Key Concepts**

**1.** Translating Between Multiple Representations. (p. 656)

TRANSLATING BETWEEN MULTIPLE REPRESENTATIONS		
When given a(n)	Try to	
Table	<ul> <li>Find finite differences or ratios to determine which parent function best describes the data.</li> <li>Graph points as ordered pairs and look for a pattern.</li> <li>Match the data to the related parent function, if applicable, and perform a regression.</li> </ul>	
Graph	<ul> <li>Identify which parent function the graph most resembles, and then use key points (intercepts, maxima, minima, and so on) from the graph to help write an equation.</li> <li>Locate several points on the graph and write them in a table.</li> <li>Use slope; increasing, decreasing, or constant intervals; and intercepts to write a verbal description.</li> </ul>	
Equation	<ul> <li>Make a table of values. You may use a graphing calculator.</li> <li>Make a graph by using transformations of parent functions or a graphing calculator.</li> </ul>	
Verbal Description	<ul> <li>Identify dependent and independent variables, and write an algebraic equation.</li> <li>Generate a table of values by using the pattern described.</li> <li>Sketch a graph of the situation by using hints from the description about increasing, decreasing, or constant intervals, as well as intercepts.</li> </ul>	

2. Get Organized In each box, give an example. (p. 658).



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