**Chapter 2.6: Breakeven Analysis**

1. Label the following on the graph below:
	1. Revenue function
	2. Expense function
	3. Maximum revenue
	4. Breakeven points
	5. Prices at which the company will make a profit
	6. Prices at which the company will lose money



1. A manufacturer determines that a product will reach the breakeven point if sold at either $80 or $150. At $80, the expense & revenue values are both $300,000. At $150, the expense and revenue values are both $100,000. Use the grid below to graph possible revenue and expense functions that depict this situation. Circle the breakeven points.



1. The student government at State College is selling inexpensive bookcases for dorm rooms to raise money for school activities. The expense function is $E= -200p+10,000$ and the revenue function is $R=-18p^{2}+800p$.
	1. Graph the expense & revenue functions using the grid below. Label the maximum revenue point. Circle the breakeven points.



1. At what price would the maximum revenue be reached?
2. Determine the prices at the breakeven points.
3. Determine the the expense and revenue amounts for each breakeven point. Are they the same? Why or why not?