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| **Cornell Notes** | **Topic/Objective:** Unit 2: Modeling a Business | | | **Name:** |
| Chapter 2.6: Breakeven Analysis | | | **Class/Period:** |
| Functions (p.91 - 93) | | | **Date:** |
| **Essential Question:** What happens when revenue equals expense? | | | | |
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| **Questions:** | | **Notes:** | | |
| What are breakeven | | Interpretation: Draw the graph: | | |
| points? | |  | | |
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| How do you find breakeven | | Set the expense equations and revenue equations equal to one another. | | |
| points using algebra? | | Rewrite the resulting equation with zero on one side of the equal sign and all other terms | | |
|  | | on the other side. You should have a quadratic equation that is of the form: ax2+bx+c=0. | | |
|  | | The quadratic formula can be used to solve the quadratic equation for x: | | |
|  | | x = | | |
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| **Summary:** | | | | |
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| **Questions:** | | | **Notes:** | |
| How do I find the breakeven | | | **Example 1:** The breakeven points can be found algebraically: | |
| points using algebra? | | | E = R | |
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| How do I find the expense | | | **Example 2:** The y-value of the breakeven point will be both the revenue and expense | |
| and revenue at the breakeven | | | values (remember, we were trying to figure out the price when revenue = expense). | |
| points? | | | These values can be determined by substituting the values of *p* into the expense and | |
|  | | | revenue equations. | |
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| **Summary:** | | | | |
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