

**Answer the following after STEP 1:**

1. Explain what the formula in cell B2 is calculating. \_\_\_\_\_  
\_\_\_\_\_

**Answer the following after STEP 2:**

2. What labels and units did you put on the X-axis and the Y-axis? \_\_\_\_\_  
\_\_\_\_\_

**Answer the following after STEP 3:**

3. What is the linear model given for the Men's speed Skating time? \_\_\_\_\_
4. What is the linear model given for the Woman's speed Skating time? \_\_\_\_\_
5. What is the 'real world' meaning of each slope? (include the units in your answer)  
\_\_\_\_\_
6. From looking at the Scatter Plot in approximately *how many years* does it appear that the Men's and Women's times will be the same? \_\_\_\_\_

**Answer the following after STEP 4:**

7. According to the intersection on the graph on EXCEL what is the approximate *year* at which the two winning times will be the same? \_\_\_\_\_
8. What is the predicted winning time in this year? \_\_\_\_\_
9. Use the two equations to find the predicted year the woman's and men's times will be the same:
10. Does your solution agree with the predicted year on EXCEL?

**SET UP A NEW SPREAD SHEET USING THE FOLLOWING DATA TO ANSWER THE QUESTIONS:**

<b>Month</b>	<b>Income</b>	<b>Expenses</b>
<b>Feb</b>	<b>8000</b>	<b>35000</b>
<b>Mar</b>	<b>12000</b>	<b>33000</b>
<b>Apr</b>	<b>13000</b>	<b>34000</b>
<b>May</b>	<b>18000</b>	<b>32000</b>
<b>Jun</b>	<b>20000</b>	<b>31000</b>

11. Find the linear models for the income and expenses. \_\_\_\_\_

\_\_\_\_\_

12. According to the scatter plot in which month will income surpass expenses.

\_\_\_\_\_

**PRINT A COPY OF YOUR GRAPH AND TURN IT IN WITH THESE QUESTIONS.**