

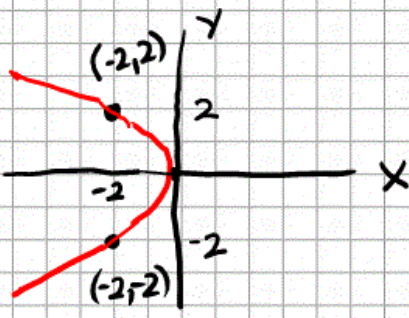
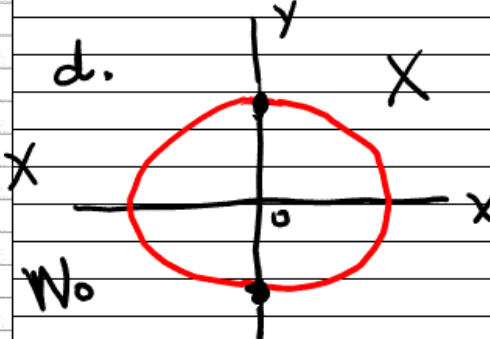
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Examples and Vocabulary	Notes/Comments/Questions
d. Referring to a, fill in the blank: $a(-2) = \underline{3}$ $a(-2) = 4$ <u>Function</u> - A relation where each input is matched with exactly one output.	What makes a relation a function?

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Examples and Vocabulary	Notes/Comments/Questions
② Which of the following relations is not a function? Explain. Yes a. $\begin{array}{c c c c c c} x & 0 & 1 & 2 & 3 & 4 \\ \hline y & 0 & 1 & 2 & 3 & 4 \end{array}$ Yes b. $\begin{array}{c c c c c c} x & 0 & 1 & 2 & 3 & 4 \\ \hline y & 4 & 4 & 4 & 4 & 4 \end{array}$ No c. $\begin{array}{c c c c c c} x & 0 & 1 & 2 & 2 & 4 \\ \hline y & 1 & 2 & 3 & 4 & 0 \end{array}$ Yes d. $\begin{array}{c c c c c c} x & 0 & 1 & 2 & 3 & 3 \\ \hline y & 3 & 2 & 1 & 0 & 0 \end{array}$	How do I determine if a table is a function or not?

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Examples and Vocabulary	Notes/Comments/Questions
③ Which of the following relations is a function? Explain. a.  No, there is one input with two different outputs b.  Yes, b. each input matches exactly one output c.  Yes	Why is a graph of a set of points a relation? How do I determine if a graph is a function? d.  No

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Examples and Vocabulary	Notes/Comments/Questions
<u>Function</u> - A rule that can be used to predict or determine an unknown quantity (called the <u>output</u> or <u>dependent quantity</u>) based on a known or measurable quantity (called the <u>input</u> or <u>independent quantity</u>). We say the output is a function of the input. ④ Suppose you go to a grocery store to buy some oranges and the price is \$0.70 per pound.	

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Examples and Vocabulary	Notes/Comments/Questions
a. What is the input?	

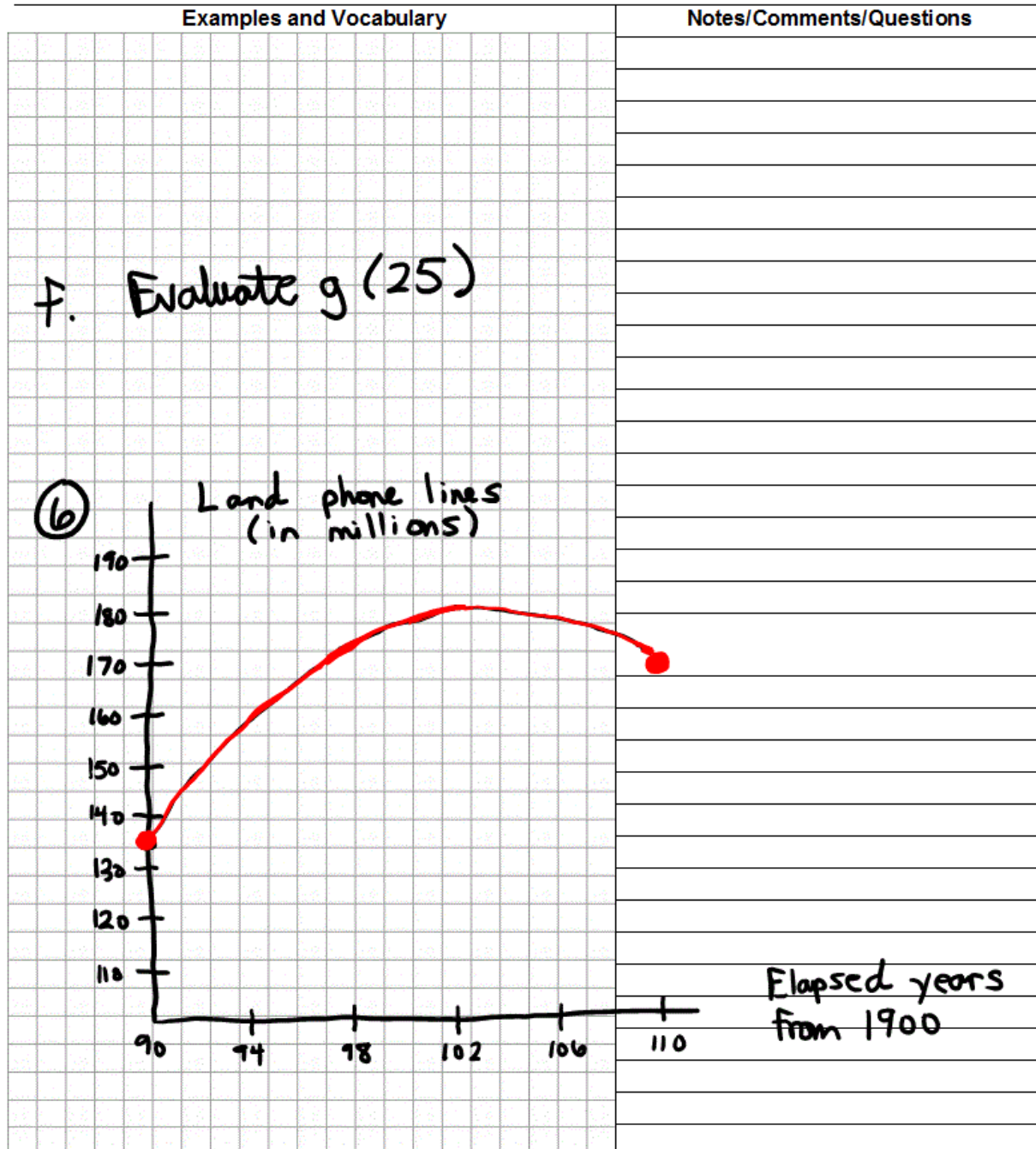
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Examples and Vocabulary	Notes/Comments/Questions												
e. What input(s) matches the output 105?													
f. What is the domain?													
g	g. Is the cost of the oranges a function of the number of oranges?												
⑤	<table><tr><td>Number of hours worked</td><td>0</td><td>10</td><td>20</td><td>30</td><td>40</td></tr><tr><td>Maximum credit hours</td><td>16</td><td>13</td><td>10</td><td>7</td><td>4</td></tr></table>	Number of hours worked	0	10	20	30	40	Maximum credit hours	16	13	10	7	4
Number of hours worked	0	10	20	30	40								
Maximum credit hours	16	13	10	7	4								

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Examples and Vocabulary	Notes/Comments/Questions
a. What is the input?	
b. What is the output?	
c. What is the function rule?	
d. Interpret $g(30)$. Evaluate $g(30)$.	
e. Find x such that $g(x) = 16$. What does x mean?	

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Examples and Vocabulary	Notes/Comments/Questions
a. What is the input?	
b. What is the output?	
c. What is the function rule?	
d. Interpret and evaluate $h(90)$.	
e. What was the max. number of phone lines and when?	
f. What is the domain? The range?	