Algebra I Medical Equipment

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		Name		

Hour			

- 1) A company produces medical equipment that need to be very precise. They use the formula $\mathbf{e} = \|\mathbf{p} \mathbf{I}\|$ to calculate the error in the thickness of a piece of equipment. \mathbf{e} is the error in the thickness of a piece of equipment, \mathbf{p} is the actual thickness of the product and \mathbf{I} is the ideal thickness that they want the equipment to be. The ideal thickness of the equipment is 10 mm.
 - a) What is the error in thickness if the actual thickness of one of the devices is 9.84 mm?

a)			
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b) What is the error in thickness if the actual thickness of one of the devices is 10.052 mm?

- c) Write the function for the medical equipment given the ideal thickness is 10 mm.
- d) Complete the table below and sketch the graph of the function from part c. Label the axis on the graph.

Actual	Error
thickness	
8	
8.5	
9	
9.5	
10	
10.5	
11	

