The Wishings: Electricity Cost Rate versus Rate of Change

Directions: The Wishings were wondering: What is the difference between Cost per kWh Rate versus the Rate of Change in the Cost? Complete the following table to answer this question. The first two examples have already been done. After completing the table, please answer the questions on the following page.

kWh Used	Total Cost	Cost per kWh (Round to the nearest hundredth.) *To calculate this, divide the Cost by kWh.*	Rate of Change in Cost This Cell's Cost – Previous Cell's Cost This Cell's kWh – Previous Cell's kWh
20	$10.16	$10.16 ÷ 20 = $0.51 per kWh	NA
60	$13.76	$13.76 ÷ 60 = $0.23 per kWh	$13.76 ÷ 10.16 = $0.09 60 - 20
80	$15.56		
100	$17.36		
120	$20.36		
220	$35.34		
300	$47.32		
400	$62.31		
500	$77.29		
600	$92.27		
660	$101.26		
750	$114.74		

1 How does the Cost Rate (cost per kWh) change as the number of kWh increase?

2 What pattern do you see in the Rate of Change in Cost?

Why do you think this is so? (Hint: Remember how the Delivery Cost was distributed)