Worksheet 3-1 Rate of Change

1.

Number of Costumes	2	4	6	8	
Fabric (yd)	7	14	21	28	

Is this table linear? _____

If yes, what is the constant rate of change? _____

3.	x	у
	0	3
	2	11
	4	19
	6	27
	8	35

Is this table linear? _____

If yes, what is the constant rate of change? _____

Find the rate of change for each graph.

3. Hawk Diving Toward Prey



2.

Day	1	2	3	4
Distance(mi)	21.8	43.6	68.8	90.6

Is this table linear? _____

If yes, what is the constant rate of change? _____

4. Time Water (min) left in pool (gal) 10 80 20 60 30 40 40 20

Is this table linear? _____

If yes, what is the constant rate of change? _____

4.



Extension

LONG DISTANCE For Exercises 3–6, use the graph that compares the costs of long distance phone calls with three different companies.



1. Interpret the difference between the cost in dollars and the length in minutes for Company A as a rate of change.	2. Interpret the difference between the cost in dollars and the length in minutes for Company B as a rate of change.
3. Interpret the difference between the cost in dollars and the length in minutes for Company C as a rate of change.	4. Which company charges the least for each additional minute? Explain your reasoning.