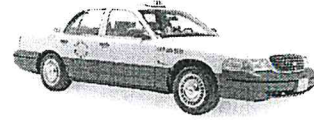


Taxi Ride #1

The cost of a taxi ride depends on the number of kilometres driven and the initial cost charged by the company. The fees of 3 different companies are listed below.



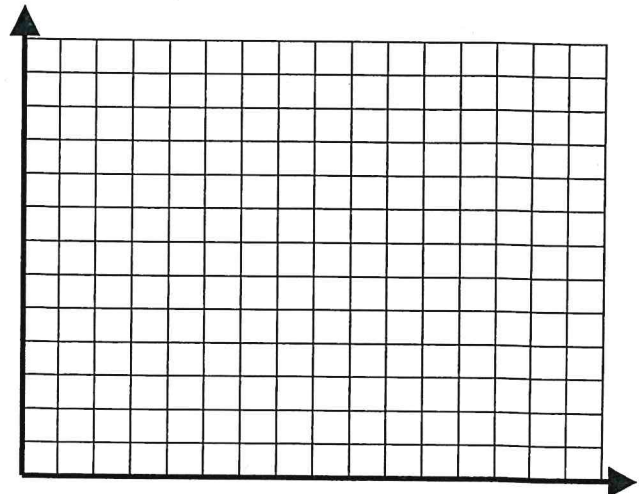
Kwik Kab	A-1 Taxi	Grabbacab
\$1 plus \$1 for every kilometre.	\$1 plus \$2 for every kilometre.	\$1 plus \$3 for every kilometre.

1. Complete the table below to determine the costs of the different taxi companies.

# of Kilometres	Kwik Kab	A-1 Taxi	Grabbacab
0			
1			
2			
3			
4			
5			

2. Is the relationship between the cost and the number of kilometres driven going to be linear or non-linear? Explain how you made your conclusion.

3. Draw a graph relating cost and number of kilometres driven. Use a different colour or dashed line for each graph. Don't forget to label your axes.



4. Determine an equation to represent the cost of a taxi ride. Use “C” to represent cost and “k” to represent the number of kilometres.

Kwik Kab	A-1 Taxi	Grabbacab

5. What is the same about each equation?
6. How is the similarity from question #5 reflected in the graph?

This number is called the _____ . This number tells you where the line starts.

7. What is different about each equation?
8. How is the difference from question #7 reflected in the graphs?

This number is called the _____ . This number tells you how steep the line is.