Watch the video clip.

What's the question?

Identify:

Independent Variable:

Dependent Variable:

1. Create a table of values.

2. Graph this relationship
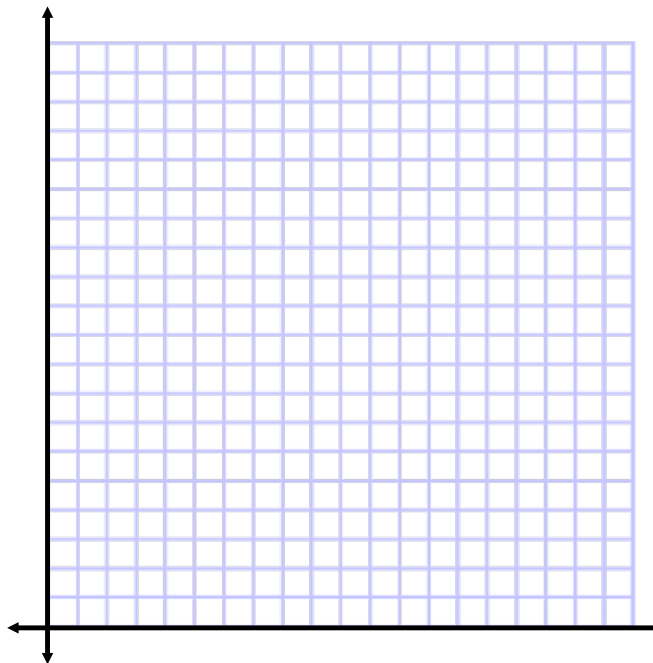
3. Complete the following:

Initial Value:

Rate of Change:

Circle Type of Variation:
DIRECT / PARTIAL

Equation:

4. Use the equation to determine the cost of a 25 km taxi trip.

5. How far would the taxi take you for $75?

6. Assume the taxi company changed their fees so that the taxi meter begins at $4 and adds an additional $2.50 per kilometre travelled. Complete the following for the new fees:
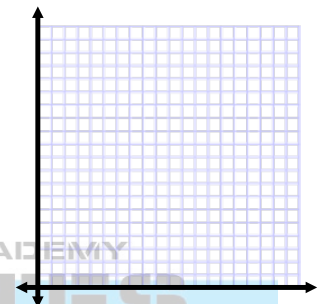
| Initial Value: | Rate of Change: | Circle Type of Variation: DIRECT / PARTIAL |

Equation:

Explain what the graph of this new relation would look like in comparison to the original. Then, draw quick sketches of both graphs on the grid to the right.