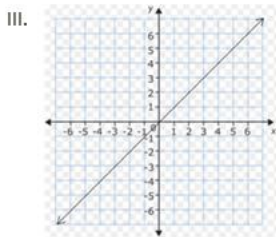
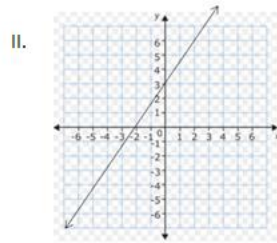


Possible Solutions

Which of the following represents a proportional relationship?

I.

# of Hours	Cost of Service Call
2	100
3	125
5	175
8	250



IV. $y = \frac{3}{4x}$

- a) I and II
- b) I and IV
- c) III and IV
- d) II and III

Possible Solution

A linear equation is proportional if there is a constant rate of change. From a graph, the line must go through $(0, 0)$. From a table, $\frac{y}{x}$ must be constant for each y and x . From an equation, the equation must be in the form $y = kx$.

- The ratio for the table in I is not constant.
- The graph for II does not go through $(0, 0)$.
- The graph of III goes through $(0, 0)$, so it is proportional.
- The equation $y = \frac{3}{4x}$ is in the correct form, so it is proportional.
- The solution is c) III and IV.