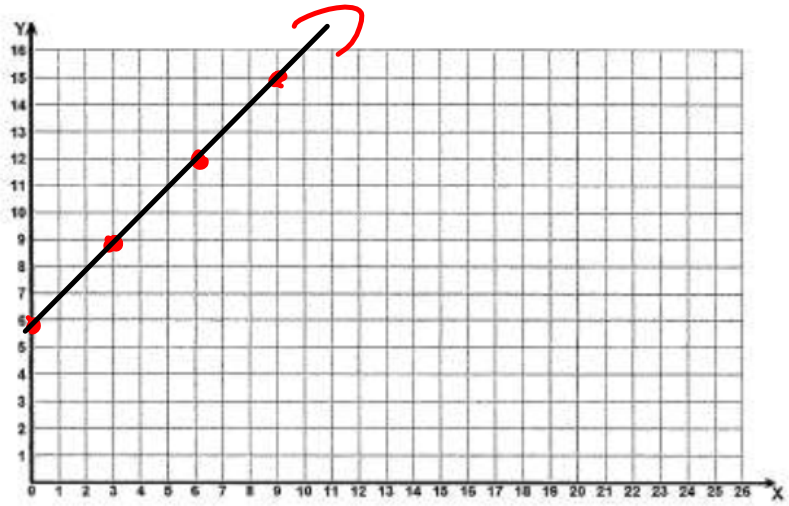
Homework #28 – Proportional Relationships on Graphs

1) Use the table to graph the following relationship. Tell whether the relationship is proportional or non-proportional. Explain.

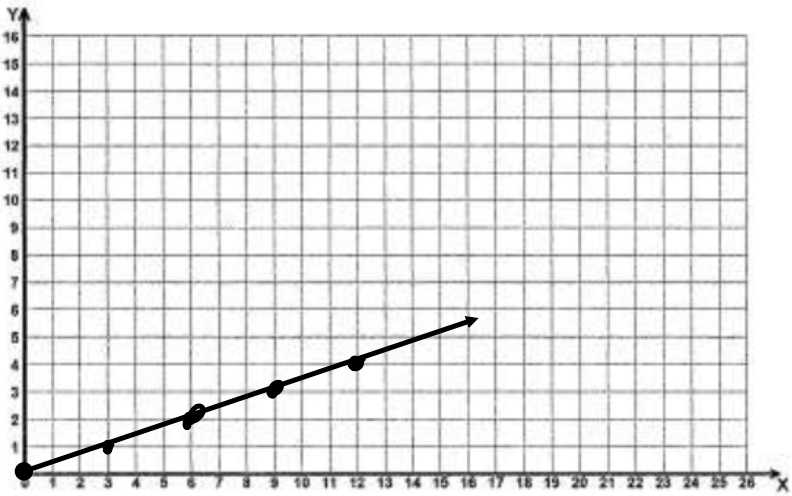
x	y
0	6
3	9
6	12
9	15
12	18



Not proportional. The line does not begin at the origin.

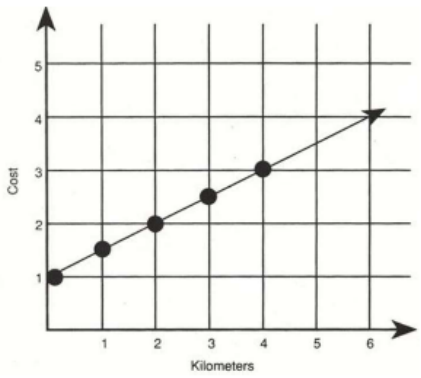
2) Use the table to graph the following relationship. Tell whether the relationship is proportional or non-proportional. Explain

x	y
3	1
6	2
9	3
12	4

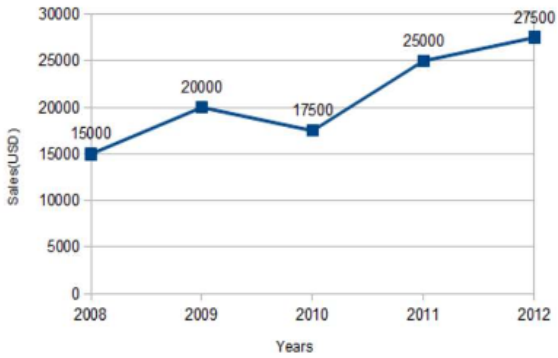


Proportional. The line begins at the origin and the line is straight.

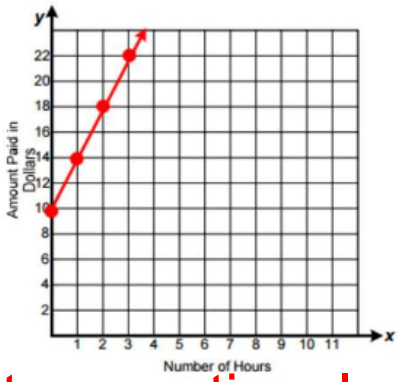
3) Determine whether or not the following graphs represent quantities that are proportional to each other. Justify your answer.



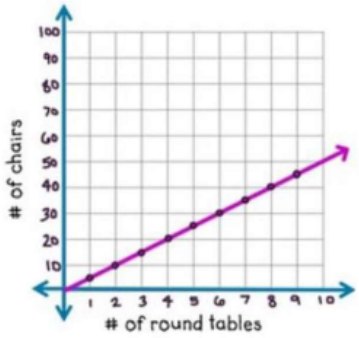
Not proportional. The line does not begin at the origin.



Not proportional. The line does not begin at the origin.



Not proportional. The line does not begin at the origin.



Proportional. The line is straight and begins at the origin.

Review

Evaluate:

1) $3 \cdot |-3 \cdot 7| \div (-9)$

$3 \cdot |-21| \div (-9)$

$3 \cdot 21 \div (-9)$

$63 \div (-9)$

-7

2) $-8 \cdot 7 + 33 \div (-11)$

$-56 + 33 \div (-11)$

$-56 + (-3)$

-59