

Jane charges \$15 an hour to tutor.

What is the independent and dependent variables?

I: hours      D: Income \$

What values of the domain and range make sense for this situation?

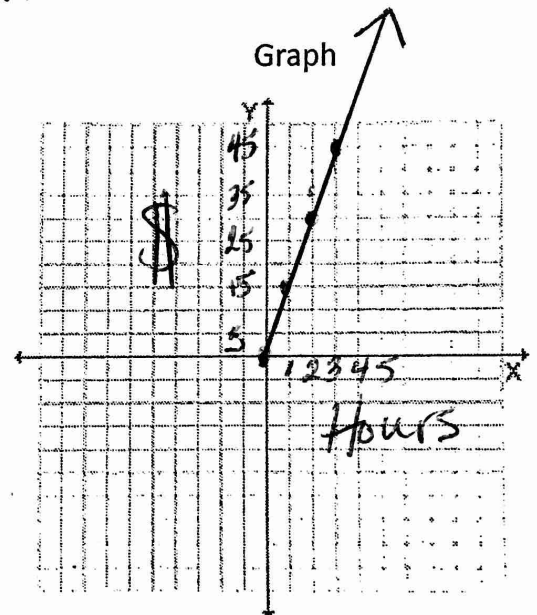
Domain:  $0 - \infty$  positive

Range:  $0 - \infty$  positive

Write a rule (equation) to represent her total income.  $y = 15x$

Make a table for this situation

x	$y = 15x$	y
0	15.0	0
1	15.1	15
2	15.2	30
3	15.3	45
4	15.4	60



How much money will <sup>she</sup> ~~he~~ make if she tutors for 11 hours?

$$15 \cdot 11 = \$165$$

Is this a linear relationship?

yes

Is this a function?

yes

Gavin charges \$10 an hour to mow grass.

What is the independent and dependent variables?

Independent = hours (h)    Dependent = Cost (C)

What values of the domain and range make sense for this situation?

Domain: positive

Range: positive

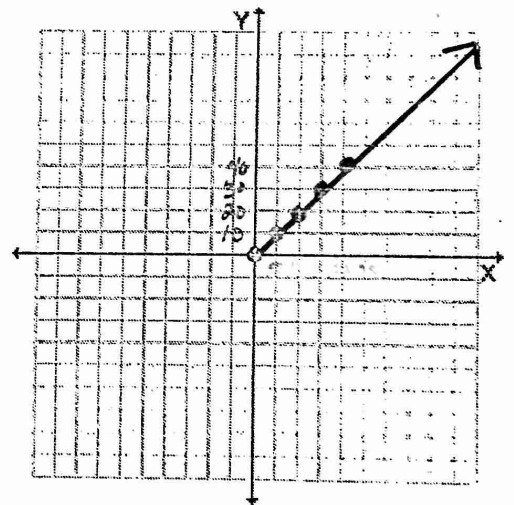
Write a rule (equation) to represent his total income.

$$C = 10h$$

Make a table for this situation

x		y
0	10(0)	0
1	10(1)	10
2	10(2)	20
3	10(3)	30
4	10(4)	40

Graph



How much money will he make if he mows for 5 hours?

\$50

Is this a linear relationship? yes

Is this a function? yes