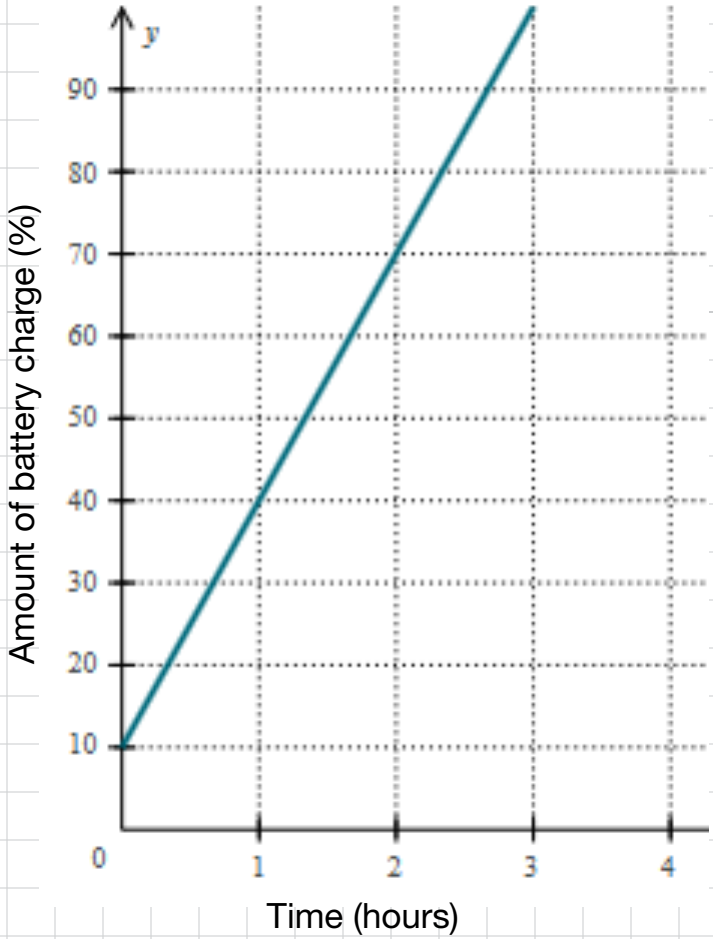
WRITING A LINEAR EQUATION THAT MODELS A SITUATION GIVEN A GRAPH OR TABLE

Ravi is charging his tablet. As the tablet charges, the amount of battery charge increases at a constant rate. The graph shows the linear relationship between the time 'x' (in hours) since the tablet began charging and the amount of battery charge 'y' (as a percentage).

Write a linear equation to represent the relationship between 'x' and 'y'.



(1) ELO PAPER EVIDENCE

FIND SLOPE (m) = 30

$$\frac{40-10}{1-0} = \frac{30}{1} = 30$$

FIND 'b' USING (0, 10) ∴ b = 10

EQUATION: $y = 30x + 10$

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