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What is the solution of the equation below?

$$3(2w - 6) - 5w = -4(-w - 3)$$

When the smaller of two consecutive integers is added to five times the larger integer, the result is 65. Find the larger integer.

Solve $-8 - by = c$ for b .

If $7 + 3h$ is five more than eight, what is the value of $6h$?

Your friend is selling 7 outdoor movie tickets for AED 210. You can buy 3 tickets online for AED 75. Which source offers a better price per ticket? Explain.

Borders orders a newly-released book in a large quantity, costing them AED 25 each. The store resells each book for AED 50. What is the percent markup?

For what value(s) of h is $4|h + 7| + 5$ equal to 21?

Katie begins bicycling east at 20 kilometers per hour at 6:00 p.m. If Whitney leaves from the same point 30 minutes later bicycling east at 24 kilometers per hour, when will she catch Katie?

A line passes through $(-6, t)$ and $(3, -4)$ and has a slope of $-\frac{1}{9}$. Find the value of t .

What is the related function and solution of the equation below?

$$-4x + 6 = -2x + 12$$

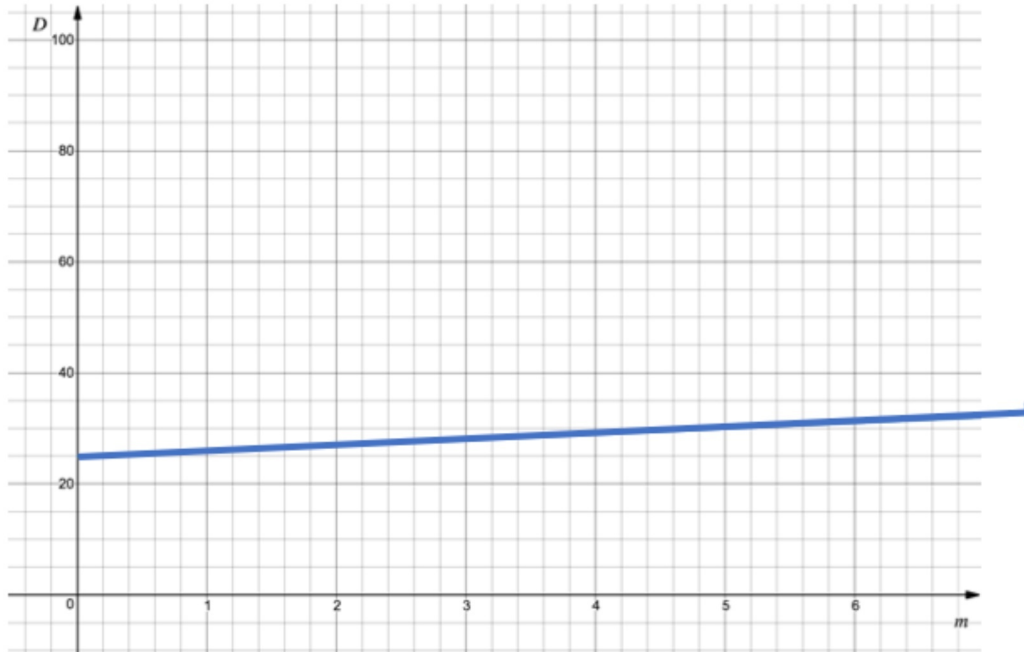
$$f(x) = -2x - 6; -9$$

$$f(x) = 2x + 6; -3$$

$$f(x) = 2x + 6; 6$$

$$f(x) = -2x - 6; 18$$

The graph below displays the total distance D , in kilometers, from its care facility that an ostrich runs in m minutes.



What does the y -intercept represent in the graph?

the ostrich's initial distance from the care facility

the total number of ostriches running

the total number of minutes the ostrich ran

the distance the ostrich ran each minute

Suppose y varies directly as x , and $y = 22.5$ when $x = 9$. Find x when $y = 40$.

Interpret the rate of change in the table below.

Time (days), x	6	12	18
Items Sold, y	15	27	39

2 items sold per day

6 items sold per day

1 item sold every 2 days

12 items sold every 2 days

The table below shows the cost when a certain distance is traveled. In function notation, write an equation to describe the relationship in the table below.

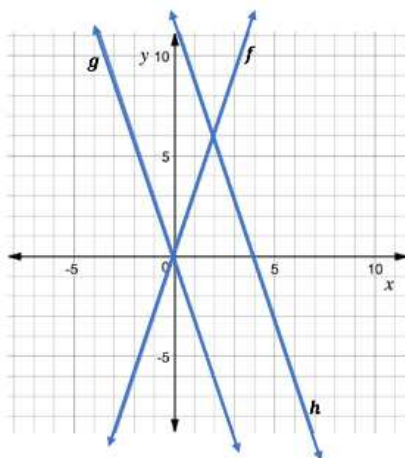
Distance (km)	2	4	6	8
Cost (AED)	9	10	11	12

$f(x) =$

The arithmetic sequence 150, 175, 200, ... represents the number of passengers in the first, second, and third carriages, etc. of a train. Using $f(n) = (n - 1)d + a_1$, write a function to represent the sequence.

$f(n) =$

Consider the three lines graphed below.



- (a) Write an equation to represent each linear function $f(x)$, $g(x)$, and $h(x)$.
- (b) Determine if each function from part (a) represents a direct variation. For each function that does represent a direct variation, name the constant of variation.

(c) Find the slope of the line that represents a nonproportional relationship.

(d) For each parallel line, write a ratio comparing the y -intercept to the slope of the line. Are these ratios equivalent?

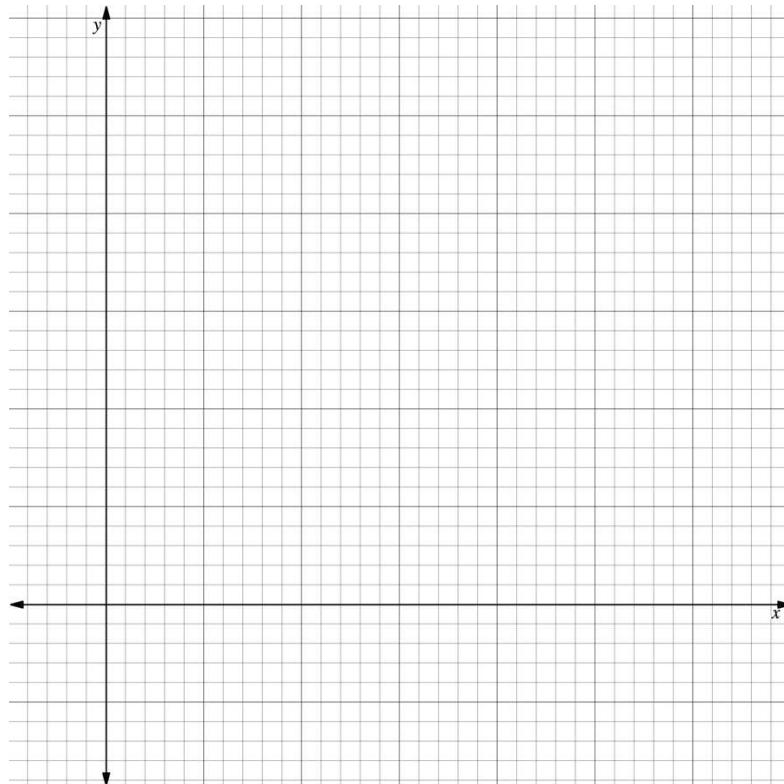
The Dubai Opera had a one-day sale on tickets. Each child's ticket was on sale for AED 50, and each adult's ticket was on sale for AED 150. The total amount earned from the one-day sale was AED 3300.

(a) Define two variables and write a linear function in standard form that relates the number of child's tickets sold to the number of adult's tickets sold.

(b) Solve your equation from part (a) for one of your defined variables.

(c) Find the x - and y -intercepts of the graph of the function.

(d) Using the x - and y -intercepts, graph your equation. Be sure to label the axes.



The average internal body temperature of humans is 98.6°F . This temperature can vary by as much as 0.5° and still be considered normal.

(a) Use a number line to find the maximum and minimum temperatures to still be considered normal. Indicate units of measure.

(b) If a human's internal body temperature is exactly 0.5° above or below the average, write an absolute value equation to represent this.

(c) Solve the equation.

(d) A classmate writes the equation $|x - 0.5| = 98.6$ to represent the situation. Is this correct? Explain why or why not.