MasterMath

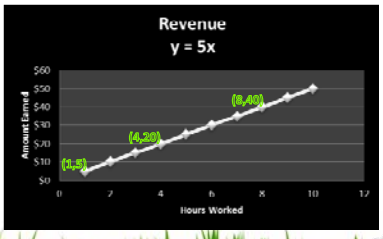
Algebra

Graphs

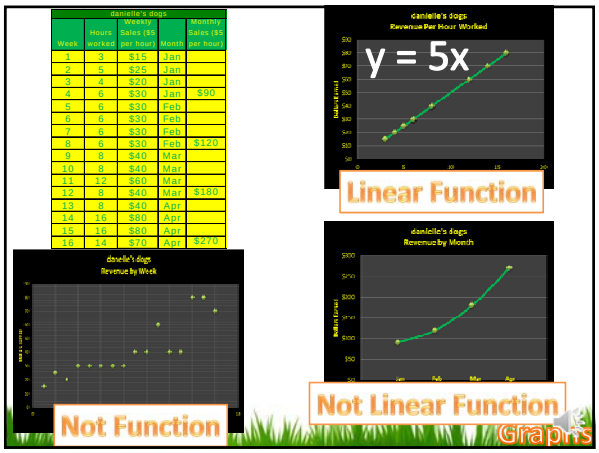
Graphs

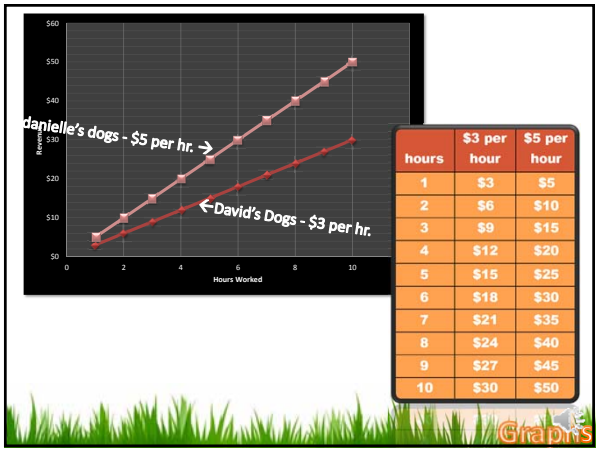
y = amount earned
x = hours worked
y = 5x

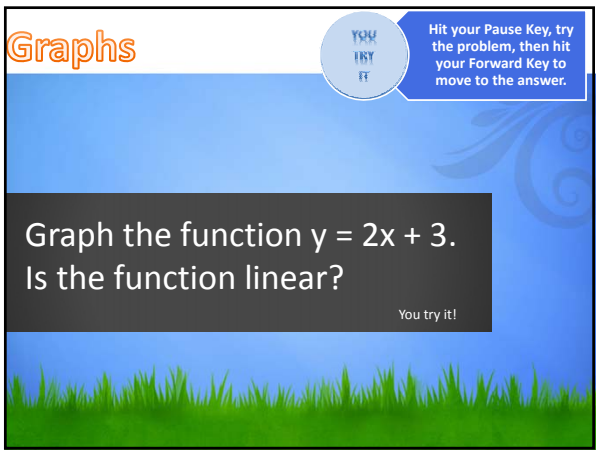
Hours Worked	Revenue
1	$5
2	$10
3	$15
4	$20
5	$25
6	$30
7	$35
8	$40
9	$45
10	$50



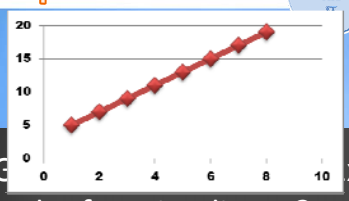
Graphs


danielle's dogs
Week | Hours worked | Weekly Sales ($5 per hour) | Month | Monthly Sales ($5 per hour)
1 | 3 | $15 | Jan |
2 | 5 | $25 | Jan |
3 | 4 | $20 | Jan |
4 | 6 | $30 | Jan | $90
5 | 6 | $30 | Feb |
6 | 6 | $30 | Feb |
7 | 6 | $30 | Feb | $120
8 | 8 | $40 | Mar |
9 | 8 | $40 | Mar |
10 | 8 | $40 | Mar | $180
11 | 12 | $60 | Mar |
12 | 8 | $40 | Mar |
13 | 8 | $40 | Apr |
14 | 16 | $80 | Apr |
15 | 16 | $80 | Apr |
16 | 14 | $70 | Apr | $270
danielle's dogs
Revenue by Week
Not Function
danielle's dogs
Revenue Per Hour Worked
y = 5x
Linear Function
danielle's dogs
Revenue by Month
Not Linear Function
Graphs


$60
$50
$40
$30
$20
$10
$0
0
2
4
6
8
10
Hours Worked
danielle's dogs - $5 per hr.
David's Dogs - $3 per hr.
hours | $3 per hour | $5 per hour
1 | $3 | $5
2 | $6 | $10
3 | $9 | $15
4 | $12 | $20
5 | $15 | $25
6 | $18 | $30
7 | $21 | $35
8 | $24 | $40
9 | $27 | $45
10 | $30 | $50
Graphs


Graphs
YOU TRY IT
Hit your Pause Key, try the problem, then hit your Forward Key to move to the answer.
Graph the function y = 2x + 3.
Is the function linear?
You try it!

Graphs



G x + 3.

Is the function linear?

You try it!

y = 2x + 3	
x	y
1	5
2	7
3	9
4	11
5	13
6	15
7	17
8	19

Graphs

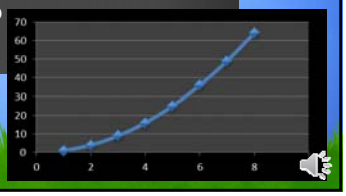
Hit your Pause Key, try the problem, then hit your Forward Key to move to the answer.

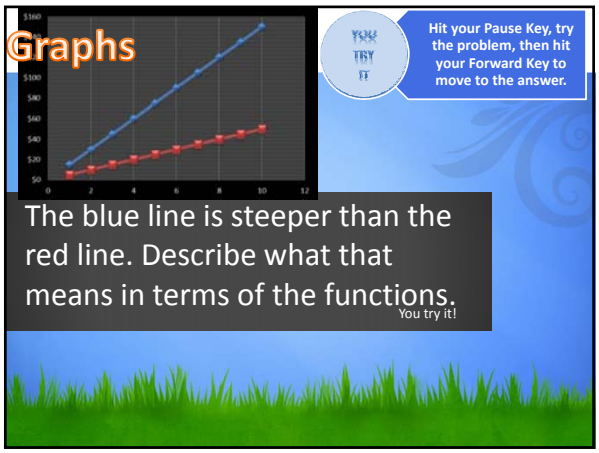
Does this graph represent a linear function?

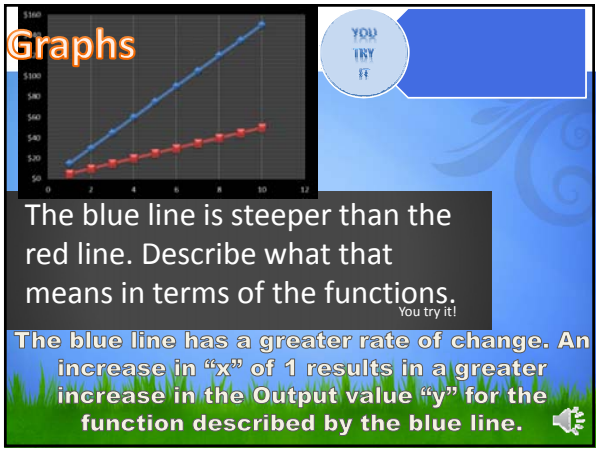
Graphs

The Graph is not a straight line, so the function is not linear

Does this graph represent a linear function?




Graphs
YOU TRY IT
Hit your Pause Key, try the problem, then hit your Forward Key to move to the answer.
The blue line is steeper than the red line. Describe what that means in terms of the functions.
You try it!


Graphs
YOU TRY IT
The blue line is steeper than the red line. Describe what that means in terms of the functions.
You try it!
The blue line has a greater rate of change. An increase in "x" of 1 results in a greater increase in the Output value "y" for the function described by the blue line.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Graphs