Name_____ Date_____

Patterns and Relations
Unit 1 Line Master 5a

Make it Linear!

Task 1

Is the relation linear?
Explain how you know.

x	*y*
1	2
2	2
3	2
4	2

Task 2

Is the relation linear?
Explain how you know.

x	*y*
1	6
3	10
4	12
5	14

Task 3

Does this represent
a linear relation?
Explain how you know.

You get paid $15 an hour.

Task 4

Explain how you know this
relation isn't linear,
then change it so it is.

x	*y*
1	12
3	4
4	2
2	8

Name_____ Date_____

Patterns and Relations
Unit 1 Line Master 5b

Make it Linear! (cont'd)

Task 5

Does this equation represent a linear relation?
Show how you know.

$y = 3x - 1$

Task 6

Two ordered pairs are given. Write at least 2 more pairs so that the set represents a linear relation.
Show your work.

(2, 5) (5, 11)

Task 7

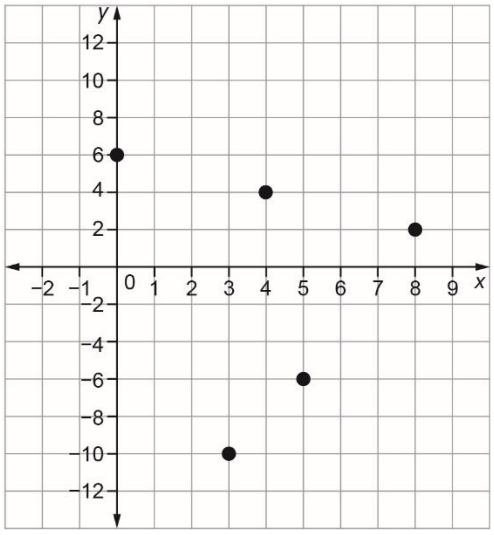
Make a linear relation with the following condition:

Every time the *x*-value increases by 1, the *y*-value decreases by 3.

Express the relation as a table of values and an equation.

Task 8

How do you know the relation in this graph is not linear?
Change the graph so it is linear.

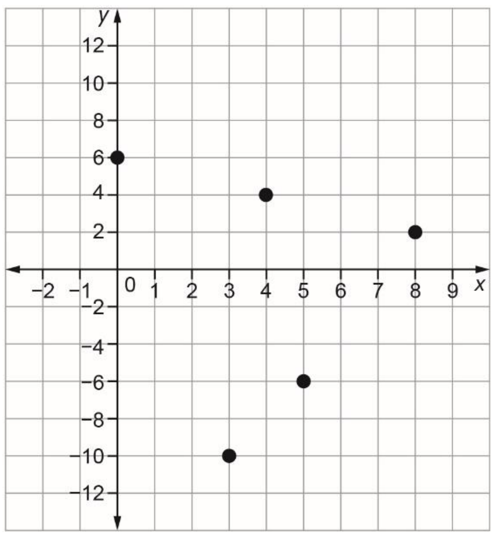


Name_______________________________ Date____________________

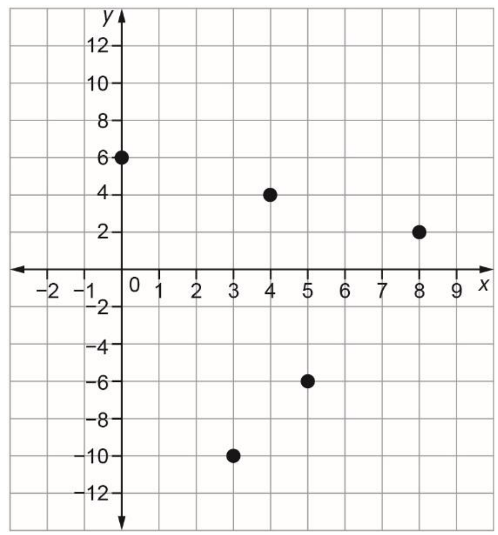
Patterns and Relations
Unit 1 Line Master 5c

Make it Linear! (cont'd)

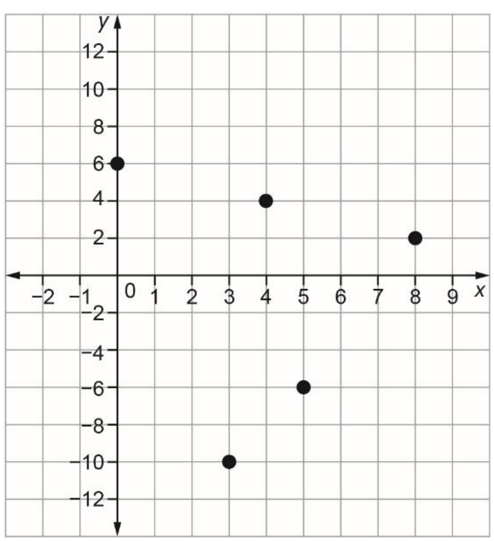
Graph to use for Task 8 solution



Graph to use for Task 8 solution



Graph to use for Task 8 solution



Graph to use for Task 8 solution