Name _____ Date _____

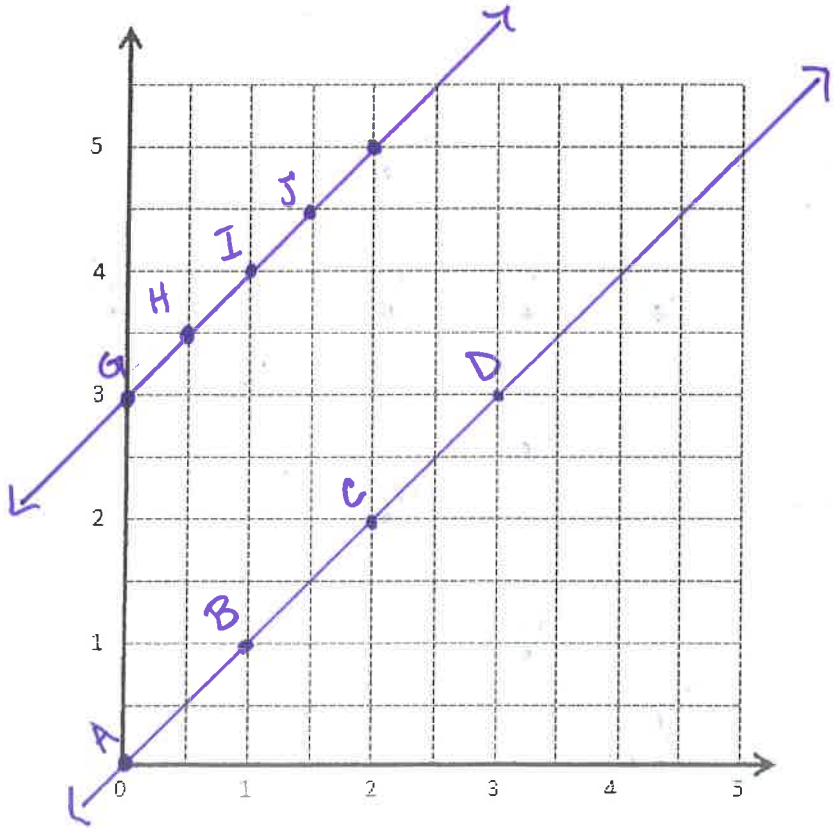
1.

a.

Point	x	y	(x, y)
A	0	0	(0, 0)
B	1	1	(1, 1)
C	2	2	(2, 2)
D	3	3	(3, 3)

b.

Point	x	y	(x, y)
G	0	3	(0, 3)
H	$\frac{1}{2}$	$3\frac{1}{2}$	$(\frac{1}{2}, 3\frac{1}{2})$
I	1	4	(1, 4)
J	$1\frac{1}{2}$	$4\frac{1}{2}$	$(1\frac{1}{2}, 4\frac{1}{2})$



_____

coordinate plane

2.

a. y is always 3

Point	(x, y)
L	(0, 3)
M	(2, 3)
N	(4, 3)

b. y is x times 2

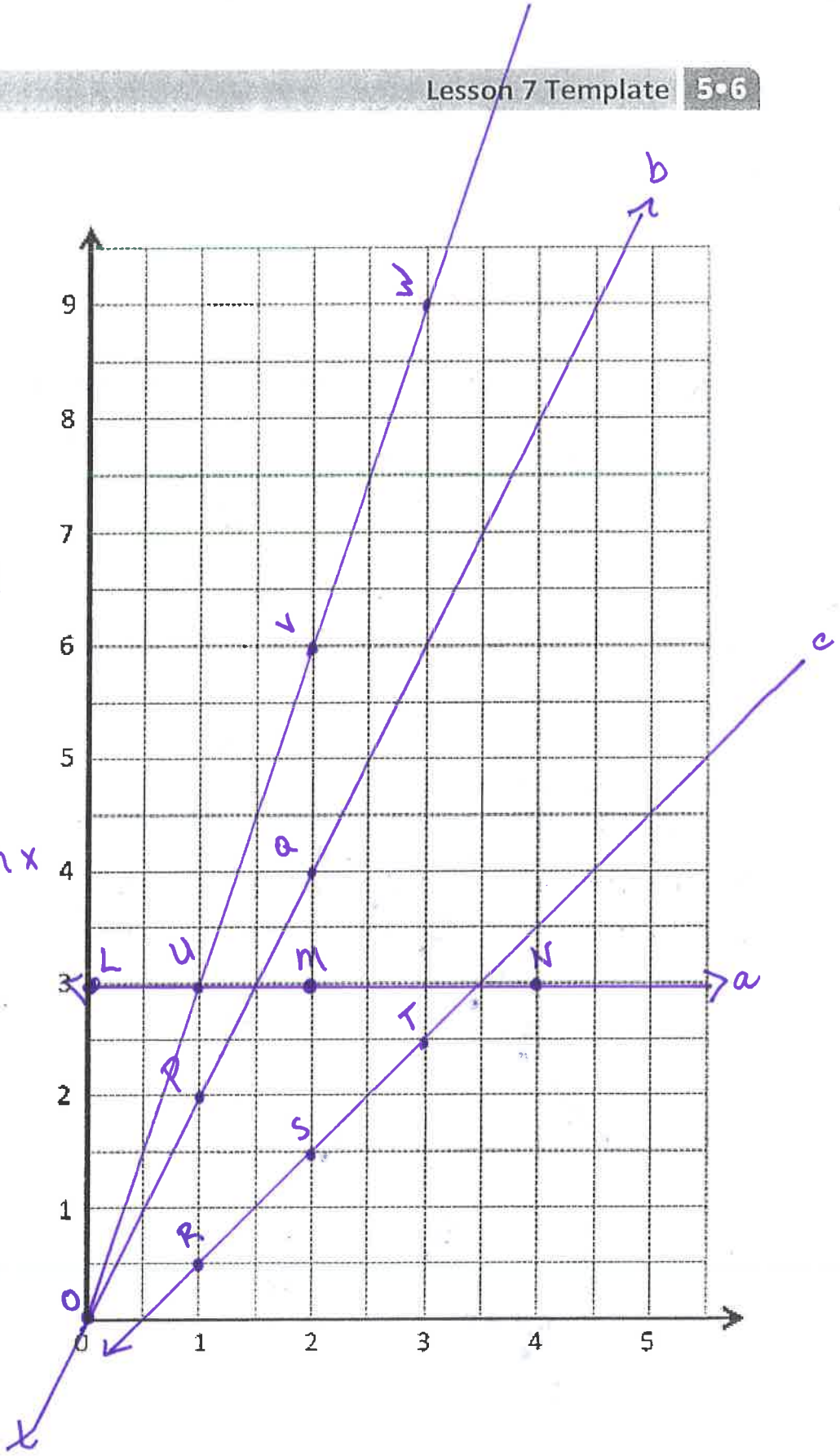
Point	(x, y)
O	(0, 0)
P	(1, 2)
Q	(2, 4)

c. y is $\frac{1}{2}$ less than x

Point	(x, y)
R	$(1, \frac{1}{2})$
S	$(2, 1\frac{1}{2})$
T	$(3, 2\frac{1}{2})$

d. y is x times 3

Point	(x, y)
U	(1, 3)
V	(2, 6)
W	(3, 9)



coordinate plane

M6L7: Patterns on the Coordinate Grid.

a. The rule for the coordinates is
y is equal to x
(4,4) ✓ (10,10) ✓ $(1\frac{1}{2}, 1\frac{1}{2})$

$\frac{3}{2} = 1\frac{1}{2}$ $(\frac{3}{2}, 1\frac{1}{2})$ ✓

Collinear = relationship between x and y is the same
x = 2 (2, 5)
y is 3 more than x

$y = x + 3$ $y = 7, x = 4$ (4,7)
$7 = x + 3$ $x = 10, y = 13$ (10,13)
$y = 10 + 3$

(5,10) = b $(\frac{1}{2}, 1\frac{1}{2})$

(5, 4½)