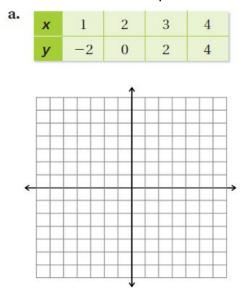
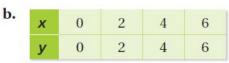
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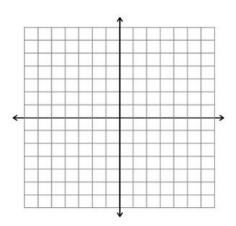
Direct Variation - Guided Notes

- Direct variation is a special type of ______.
- In order for two quantities to show direct variation, ______ things <u>must</u> be true:
 - They must be _____.
 - The line formed must pass through ______.
- The equation for a relationship that is direct variation is ______.
- The number *k* is the _____, but is also sometimes referred to as the
- The number *k* can <u>never</u> be _____.
- Two quantities that show direct variation are also always _____.

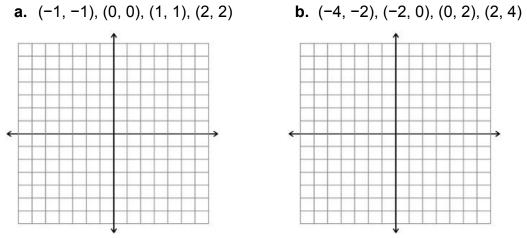
<u>Examples</u> - Graph the points below and determine whether they show direct variation. If so, write an equation.







- **1.** Explain what it means if x and y vary directly.
- 2. What point will be on every graph of a direct variation relationship?
- **3.** Graph the ordered pairs in a coordinate plane. Do you think that graph shows that the quantities vary directly? Explain your reasoning.



4. Tell whether *x* and *y* show direct variation. Explain your reasoning. If so, find *k* and write an equation.

x	1	2	3	4
У	2	4	6	8

b.

x	-2	-1	0	1
y	0	2	4	6

c.

x	-1	0	1	2
y	-2	-1	0	1

d.

x	3	6	9	12
V	2	4	6	Q