Chapter 3 Riddle

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| direct variation  | initial value | line of best fit  | linear relationship |
| linear trend | negative trend  | partial variation  | positive trend |
| rate of change | scatter plot | trend | *y*-intercept |

**Riddle:** Why is Mr. Horizontal proposing to Mrs. Vertical over all the other lines?

*To find out, identify each term described. Write the correct term in the blank provided. Copy the identified letters to the blank answer at the end of the puzzle.*

**1.** A linear relationship starting from the origin, in which one quantity increases/decreases as another quantity increases/decreases respectively

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**2.** A line that passes through as many points as possible in a scatterplot to show a trend

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**3.** A linear relationship in which an increase in the independent variable results in an increase in the dependent variable

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**4.** A pattern between two variables that follows a *linear-like* path when graphed

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**5.** The amount the dependent variable changes when the independent variable increases one unit

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**6.** A linear relationship starting from a point on the *y*-axis, in which one quantity increases/decreases as another quantity increases/decreases

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**7.** A direct relationship between two variables that, when graphed, follows a linear path exactly

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**8.** A linear relationship in which an increase in the independent variable results in a decrease in the dependent variable

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**9.** The value of the dependent variable when the independent variable has a value of zero

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**10.** The direction in which values in a data set tend to move

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**11.** The point at which a graph crosses the *y*-axis

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**12.** A graph that shows the relationship between two variables

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**Riddle Answer:**

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