

# Mrs. CASIAS → math

## LINEAR RELATIONSHIPS ALG 1 STAAR REVIEW

| LINEAR RELATIONSHIPS<br>Review  |  |  |   |   |    |   |    |    |    |    |    |    |
|---|--|--|---|---|----|---|----|----|----|----|----|----|
| The table shows that a person bought an item.   |  |  |   |   |    |   |    |    |    |    |    |    |
| <b>SLOPE &amp; RATE OF CHANGE</b><br>$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{100}{100}$<br>$m = 1$ or $y = mx + b$ | What is the slope between $(-4, -12)$ & $(3, 8)$ ?<br>$\frac{y_2 - y_1}{x_2 - x_1} = \frac{8 - (-12)}{3 - (-4)} = \frac{20}{7}$<br>$m = \frac{20}{7}$  | Draw an example of an <u>undefined</u> & <u>zero</u> slope.<br>  |   |   |    |   |    |    |    |    |    |    |
| $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{100}{100}$<br>$m = 1$ or $y = mx + b$                                      | What is the slope of the line represented by $3x - 12y = 24$ ?<br>$3x - 12y = 24$<br>$-12y = -3x + 24$<br>$y = \frac{1}{4}x - 2$<br>$m = \frac{1}{4}$  | The table of values shows a linear relationship between $x$ & $y$ .<br><table border="1"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>5</td> </tr> <tr> <td>40</td> <td>10</td> </tr> <tr> <td>60</td> <td>15</td> </tr> <tr> <td>80</td> <td>20</td> </tr> </tbody> </table> Rate of Change = $\frac{y_2 - y_1}{x_2 - x_1} = \frac{15 - 5}{80 - 20} = \frac{10}{60} = \frac{1}{6}$ | x | y | 20 | 5 | 40 | 10 | 60 | 15 | 80 | 20 |
| x   | y  |  |   |   |    |   |    |    |    |    |    |    |
| 20  | 5  |  |   |   |    |   |    |    |    |    |    |    |
| 40  | 10   |  |   |   |    |   |    |    |    |    |    |    |
| 60  | 15   |  |   |   |    |   |    |    |    |    |    |    |
| 80  | 20   |  |   |   |    |   |    |    |    |    |    |    |
| <b>3 FORMS OF LINEAR EQUATIONS</b><br>Point-Slope Form  | Write an equation in all 3 forms of a line that goes through $(-2, 4)$ & $(1, -2)$ .<br>Slope = $\frac{y_2 - y_1}{x_2 - x_1} = \frac{-2 - 4}{1 - (-2)} = \frac{-6}{3} = -2$<br>$m = -2$<br>Point-Slope Form: $y - 4 = -2(x + 2)$ | Point-Slope Form: $y - 5 = \frac{1}{6}(x - 20)$<br>Slope-Intercept Form: $y = \frac{1}{6}x - \frac{10}{3}$   |   |   |    |   |    |    |    |    |    |    |

|   |   |  |
|---|---|--|
| <b>Standard Form</b><br>$Ax + By = C$   | $3x + 4y = -20$<br>$16x + 4y = -20$<br>$12x + 4y = -20$<br>$3x + y = -5$<br>$7x + 10y = 20$   |  |
| <b>KEY FEATURES OF LINEAR FUNCTIONS</b><br>x-intercept: where the graph crosses the x-axis when $y = 0$<br>y-intercept: where the graph crosses the y-axis when $x = 0$ | <b>Zero</b> Initial Value: 84<br><b>Rate of Change</b> = $\frac{84}{6} = 14$<br>Slope-Intercept Form: $m = -14$ $b = 84$ $y = -14x + 84$<br>Standard Form: $14x + y = 84$   | The graph shows the linear relationship between the number of ice cream cones in a carton remaining and the number of ice cream cones made.<br>  |
| <b>DIRECT VARIATION (PROPORTIONS)</b><br>$y = kx$<br>$k = \frac{y}{x}$<br>$\frac{y}{x} = \frac{y_2}{x_2}$   | The value of $y$ is directly proportional to the value of $x$ when $x = 300$ , $y = 42$ . What is the value of $y$ when $x = 50$ ?<br>$\frac{y}{x} = \frac{42}{300} = \frac{y}{50}$<br>$50y = 42 \cdot 300$<br>$50y = 12600$<br>$y = 252$ | The total distance in miles a car travels varies directly with the time in seconds. The car travels a total distance of 220 miles in 22 seconds. What is the time in seconds the car travels when the total distance is 440 miles?<br>$\frac{220}{22} = \frac{440}{x}$<br>$220x = 440 \cdot 22$<br>$220x = 9680$<br>$x = 44$ |

# Staar Algebra Category Functional Relationships

**Matej Brešar, Mikhail A.  
Chebotar, Wallace S. Martindale**

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**Functional Thinking and the Study of Functional Relations in Elementary Algebra** Alfred Joseph Pyke,1935      **Functional Thinking and the Study of Functional Relations in Elementary Algebra, a Part of a Dissertation...** by Alfred Joseph Pyke Alfred Joseph Pyke,1935      *Simple Relation Algebras* Steven Givant,Hajnal Andréka,2018-01-09 This monograph details several different methods for constructing simple relation algebras many of which are new with this book By drawing these seemingly different methods together all are shown to be aspects of one general approach for which several applications are given These tools for constructing and analyzing relation algebras are of particular interest to mathematicians working in logic algebraic logic or universal algebra but will also appeal to philosophers and theoretical computer scientists working in fields that use mathematics The book is written with a broad audience in mind and features a careful pedagogical approach an appendix contains the requisite background material in relation algebras Over 400 exercises provide ample opportunities to engage with the material making this a monograph equally appropriate for use in a special topics course or for independent study Readers interested in pursuing an extended background study of relation algebras will find a comprehensive treatment in author Steven Givant s textbook Introduction to Relation Algebras Springer 2017

**Functional Identities** Matej Brešar,Mikhail A. Chebotar,Wallace S. Martindale,2007-08-08 A functional identity FI can be informally described as an identical relation involving arbitrary elementsinarintogetherwith unknown functions more precisely elementsaremultipliedbyvaluesoffunctions ThegoalofthegeneralFI theory is to determine the form of these functions or when this is not possible to determine the structure of the ring admitting the FI in question This theory has turnedouttobeapowerfultoolfor solvingavarietyofproblemsindi erentareas It is not always easy to recognize that the problem in question can be interpreted through some FI often this is the most intriguing part of the process But once one succeeds in discovering an FI that ts into the general theory this abstract theory then as a rule yields the desired conclusions at a high level of generality Among classical algebraic concepts the one of a polynomial identity PI seems to be at least on the surface the closest one to the

concept of an FI In fact a PI is formally just a very special example of an FI where functions are polynomials However the theory of PI has quite different goals than the theory of FIs One could say especially from the point of view of applications that the two theories are complementary to each other Under some natural restrictions PI theory deals with rings that are close to algebras of low dimensions while FI theory gives definitive answers in algebras of sufficiently large or infinite dimensions

Functional Thinking and the study of functional relations in elementary algebra Alfred Joseph Pyke, 1935

Functional Identities Matej Brešar, Mikhail A. Chebotar, Wallace S. Martindale, 2009-09-03 A functional identity can be informally described as an identical relation involving arbitrary elements in an associative ring together with arbitrary unknown functions The theory of functional identities is a relatively new one and this is the first book on this subject The book is accessible to a wide audience and touches on a variety of mathematical areas such as ring theory algebra and operator theory

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