

Name: _____ Hour: _____ Date: _____

2.5-Inverse Variation

DIRECTIONS: Use the inverse variation formula $y = \frac{k}{x}$ to solve the problems below.

1. Use the formula $y = \frac{k}{x}$ to:

a) solve for k, if $x=12$ and $y=5$

b) solve for y, if $x=3$ and $k=32$

c) solve for k, if $x=3.4$ and $y=2.2$

d) solve for x, if $y=4.1$ and $k=20.5$

2. Two quantities, x and y, are inversely proportional, when $x=8$, and $y=4$. Use these values and the formula $y = \frac{k}{x}$ to solve for the constant of variation (k).

a) When $x=8$ and $y=4$, $k=?$ $y = \frac{?}{x}$

b) Find the missing coordinates (x,y) for each point using the inverse proportion from part a.

i) $(16, y)$

ii) $(x, 40)$

iii) $(0.2, y)$

iv) $(x, 12.8)$

3. The amount of money in Harold's savings account is inversely proportional to the number of bills he has to pay each month. If x represents the number of bills he has to pay each month, and y represents the money in his savings account, find the following:

a) Use the equation $y = \frac{k}{x}$ to find k, the constant of variation; if Harold has \$209 in his bank account, when he has 3 bills to pay.

b) If Harold has 5 bills to pay this month, how much money will have in savings?

c) If Harold's wife Sylvia sees only \$69.67 in their savings account, about how many bills can she assume they had to pay that month?

Algebra 2 Variation Problems

Antonio Monteiro

Algebra 2 Variation Problems:

Multiple Integrals in the Calculus of Variations Charles Bradfield Morrey Jr., 2009-11-03 From the reviews the book contains a wealth of material essential to the researcher concerned with multiple integral variational problems and with elliptic partial differential equations The book not only reports the researches of the author but also the contributions of his contemporaries in the same and related fields The book undoubtedly will become a standard reference for researchers in these areas The book is addressed mainly to mature mathematical analysts However any student of analysis will be greatly rewarded by a careful study of this book M R Hestenes in Journal of Optimization Theory and Applications The work intertwines in masterly fashion results of classical analysis topology and the theory of manifolds and thus presents a comprehensive treatise of the theory of multiple integral variational problems L Schmetterer in Monatshefte f r Mathematik The book is very clearly exposed and contains the last modern theory in this domain A comprehensive bibliography ends the book M Coroi Nedeleu in Revue Roumaine de Math matiques Pures et Appliqu es [Math Word Problems For Dummies](#) Mary Jane Sterling, 2008-02-05 Covers percentages probability proportions and more Get a grip on all types of word problems by applying them to real life Are you mystified by math word problems This easy to understand guide shows you how to conquer these tricky questions with a step by step plan for finding the right solution each and every time no matter the kind or level of problem From learning math lingo and performing operations to calculating formulas and writing equations you ll get all the skills you need to succeed Discover how to Translate word problems into plain English Brush up on basic math skills Plug in the right operation or formula Tackle algebraic and geometric problems Check your answers to see if they work

Algebra 2 Margaret L. Lial, John Hornsby, Terry McGinnis, 2005-08 [Geometric Measure Theory and the Calculus of Variations](#) William K. Allard, Frederick J. Almgren, 1986 Includes twenty six papers that survey a cross section of work in modern geometric measure theory and its applications in the calculus of variations This title provides an access to the material including introductions and summaries of many of the authors much longer works and a section containing 80 open problems in the field [Translations: Differential geometry and calculus of variations](#) American Mathematical Society, 1962

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