

Algebra 2 - Lesson 10A Worksheet Direct, Inverse, and Joint Variation



Solve each of the following problems using the direct, inverse and joint variation equations. Make sure to show all work on a separate sheet of paper.

1. y varies directly as x , $x = 3$ when $y = 12$. Find y when $x = 12$.
2. a varies directly as b , $b = 1$ when $a = 5$. Find b when $a = 2$.
3. y varies inversely as x , $x = 4$ when $y = 3$. Find y when $x = 7$.
4. m varies inversely as n , $n = 6$ when $m = 2$. Find m when $n = 3$.
5. Y varies inversely as x , $x = 3$ when $y = -2$. Find y when $x = 10$.
6. z varies jointly as x and y , $x = 3$ and $y = 2$ when $z = 12$. Find z when $x = 4$ and $y = 5$.

In exercises 7 - 9, the variables x and y vary inversely. Use the given pair of values to find an equation that relates the variables.

7. $x = 3$, $y = -2$
8. $x = 4$, $y = 6$
9. $x = 5$, $y = 1$

In exercises 10 - 12, the variable z varies jointly with the product of x and y . Use the given values to find an equation that relates the variables.

10. $x = 3$, $y = 8$, $z = 2$
11. $x = -5$, $y = 2$, $z = \frac{3}{2}$
12. $x = 1$, $y = \frac{1}{2}$, $z = 4$

Identifying Direct Or Inverse Variation Equation Worksheets

Ian Anderson, Gerard Thompson



Identifying Direct Or Inverse Variation Equation Worksheets:

New York Math: Math B ,2000 Proceedings American Society for Engineering Education. Conference,1990

Technological Advancement Through Canada-U.S.-global Interchange American Society for Engineering Education.

Conference,1990 **The Inverse Problem of the Calculus of Variations for Ordinary Differential Equations** Ian

Anderson, Gerard Thompson,1992 This monograph explores various aspects of the inverse problem of the calculus of variations for systems of ordinary differential equations The main problem centres on determining the existence and degree of generality of Lagrangians whose system of Euler Lagrange equations coincides with a given system of ordinary differential equations The authors rederive the basic necessary and sufficient conditions of Douglas for second order equations and extend them to equations of higher order using methods of the variational bicomplex of Tulczyjew Vinogradov and Tsujishita The authors present an algorithm based upon exterior differential systems techniques for solving the inverse problem for second order equations a number of new examples illustrate the effectiveness of this approach

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