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in multivariable calculus math 215 and linear algebra preferably math 217 some exposure to differential equations math 216 or math 316 is helpful but not absolutely necessary the syllabus consists of high school mathematics from an advanced perspective the course is conducted in a discussion inquiry

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of the multivariable polynomial expression is  $6$  so if  $a$  and  $b$  are the exponents or the powers of  
the variable then the degree of the polynomial should be  $a + b$  where  $a$  and  $b$  are the whole  
numbers

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of several variables means the total change in the dependent variable due to the changes in all the  
independent variables suppose  $z = f(x, y)$  be a function of two variables where  $z$  is the dependent  
variable and  $x$  and  $y$  are the independent variables the total derivative of  $f$  with respect to  $x$  and  $y$   
will be the total

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substantial portions of the content examples and diagrams have been redeveloped with additional contributions provided by experienced and practicing instructors this approachable text provides a comprehensive understanding of

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