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[DCGN 381 INTRODUCTION TO ELECTRICAL CIRCUITS, ELECTRONICS AND POWER](#)

EENG 281 Homework #13 Solutions Fall 2013 Problem 1. In U.S. residences, electrical power is generally utilized at a nominal voltage of 120 Vrms. a) What key problem can you identify if the residential power distribution system and household appliances had been designed for a lower voltage like 12 Vrms? Large conductors are needed to provide power at this low voltage. Large conductors are more expensive.

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Question 1.1 $f(x, y) = (cx^2 + y^2)^{21}$. Show that the exact steepest descent is given by the equations: $x = (1 - ac)x$, $y = (1 - a)y$, where $c^2 + m^2 y = a$, $m = c^3 + m^2 x$ Proof: $\nabla f(x, y) = \nabla (cx^2 + y^2)^{21}$
 $\frac{\partial f}{\partial x} = 2cx(c^2 + y^2)^{20}$, $\frac{\partial f}{\partial y} = 2y(c^2 + y^2)^{20}$
 $\frac{\partial f}{\partial x} = \frac{\partial f}{\partial y} \Rightarrow 2cx(c^2 + y^2)^{20} = 2y(c^2 + y^2)^{20} \Rightarrow cx = y$
 $\frac{\partial f}{\partial x} = 0 \Rightarrow 2cx(c^2 + y^2)^{20} = 0 \Rightarrow cx = 0$
 $\frac{\partial f}{\partial y} = 0 \Rightarrow 2y(c^2 + y^2)^{20} = 0 \Rightarrow y = 0$
 $\frac{\partial^2 f}{\partial x^2} = 2c^3 + m^2 x$
 $\frac{\partial^2 f}{\partial y^2} = 2(c^2 + y^2)^{20} - 40y^2(c^2 + y^2)^{18}$
 $\frac{\partial^2 f}{\partial x \partial y} = 2c^2 y(c^2 + y^2)^{19}$
 $\frac{\partial^2 f}{\partial x^2} > 0$
 $\frac{\partial^2 f}{\partial y^2} > 0$
 $\frac{\partial^2 f}{\partial x \partial y} = 0$
 $\frac{\partial^2 f}{\partial x^2} \frac{\partial^2 f}{\partial y^2} - (\frac{\partial^2 f}{\partial x \partial y})^2 > 0$

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[CS 173 HOMEWORK 3 SOLUTIONS SPRING 2008](#)

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[CS 173 HOMEWORK 3 SOLUTIONS SPRING 2008](#)

CS 173: Discrete Mathematical Structures, Spring 2008 Homework 3 Solutions 1. Prove the following by induction on n . (a) If $n \geq 0$ is an integer, then $j^2 = (n+1)^{2n+1} + 2$. $j=0$ Solution: The proof is by induction on n . Base case: if $n = 0$, then $j^2 = 0 = (0+1)^{2 \cdot 0 + 1} + 2$, so the formula holds. Inductive step: let $n \geq 1$. We have that $j^2 = (n+1)^{2n+1} + 2$.





















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