

Calculus

First Principles!

Question

$$f(x) = 1 - 2x + x^2$$

$$f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$

replace x for $(x+h)$

$$\begin{aligned} f(x+h) &= 1 - 2(x+h) + (x+h)^2 \\ &= 1 - 2x - 2h + x^2 + xh + xh + h^2 \\ &= 1 - 2x - 2h + x^2 + h^2 + 2xh \end{aligned}$$

simplify

don't forget $f(x)$

$$f'(x) = \lim_{h \rightarrow 0} \frac{(1 - 2x - 2h + x^2 + h^2 + 2xh) - (1 - 2x + x^2)}{h}$$

subs into big formula

$$\lim_{h \rightarrow 0} \frac{(1 - 2x - 2h + x^2 + h^2 + 2xh) - 1 + 2x - x^2}{h}$$

simplify

$$\lim_{h \rightarrow 0} \frac{\cancel{1} - \cancel{2x} - 2h + x^2 + h^2 + 2xh - \cancel{1} + \cancel{2x} - \cancel{x^2}}{h}$$

factorise to cancel

$$\lim_{h \rightarrow 0} \frac{-2h + h^2 + 2xh}{h}$$

$$\lim_{h \rightarrow 0} \frac{\cancel{h}(-2 + h + 2x)}{\cancel{h}}$$

substitute 0 for h (limit)

$$f'(x) = -2 + 2x$$

check using shortcut of first derivative

Notes

Process

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SJ Ball



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Principles of Math Eleven Bob Frizzell, Castle Rock Research Corp, 2007 **Student Notes and Problems** Gautam Rao, 2007 **SNAP - Principles of Math 12 (AB)** Castle Rock Research Corp, 2006-09-01 SNAP Student Notes and Problems Workbooks help students achieve school success one course at a time Packed with notes explanations and illustrative examples they ve got everything a student needs to develop a complete understanding of a subject s key concepts Each SNAP workbook Is written by respected educators Includes lessons that complement classroom instruction making at home study easier Helps students apply newly acquired concepts Offers step by step learning through illustrative examples Provides a wide range of questions and problems for self testing Improving Grades is a SNAP *Applied Mechanics Reviews* ,1989 Technical Note ,1921 Graceland College Bulletin ,1934 **University of Colorado Catalogue** University of Colorado, 1928 **Resources in Education** ,2000-10 **University of Colorado Bulletin** ,1921 *Readers' Guide to Periodical Literature* ,1916 Author and subject index to a selected list of periodicals not included in the Readers guide and to composite books **Learning Mathematics in Elementary and Middle Schools** W. George Cathcart, 2006 Brief Contents Chapter 1 Teaching Mathematics Influences and Directives Chapter 2 Learning and Teaching Mathematics Chapter 3 Developing Mathematical Thinking and Problem Solving Ability Chapter 4 Assessing Mathematics Understanding Chapter 5 Developing Number Concepts Chapter 6 Developing Understanding of Numeration Chapter 7 **Social Sciences and Humanities Index** ,1916 Catalogue University of Louisville, 1915 Book Review Digest ,1913 *Catalogue Number* University of Colorado, 1930 Catalogue of the University of Colorado, Boulder Colorado University of Colorado (Boulder campus), 1916 **American Book Publishing Record Cumulative, 1950-1977: Title index** R.R. Bowker Company. Department of Bibliography, 1978 **Industrial Arts & Vocational Education** ,1915 **Catalogue of the University of Pennsylvania** University of Pennsylvania, 1915 International Index to Periodicals ,1915 An author and subject index to publications in fields of anthropology archaeology and classical studies economics folklore geography history language and literature music philosophy political science religion and theology sociology and theatre arts

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