

8.3 Piecewise Functions

8.3 Practice

Use the piecewise function to evaluate the following.

1.

$$f(x) = \begin{cases} -2x^2 - 1, & x \leq 2 \\ 4 \\ \frac{4}{5}x - 4, & x > 2 \end{cases}$$

$$a. f(0) = -2(0)^2 - 1$$

$$= 0 - 1$$

$$\boxed{f(0) = -1}$$

$$b. f(5) = \frac{4}{5}(5) - 4$$

$$= 4 - 4$$

$$\boxed{f(5) = 0}$$

$$c. f(2) = -2(2)^2 - 1$$

$$= -2(4) - 1$$

$$= -8 - 1$$

$$\boxed{f(2) = -9}$$

$$d. f(-3) = -2(-3)^2 - 1$$

$$= -2(9) - 1$$

$$= -18 - 1$$

$$\boxed{f(-3) = -19}$$

2.

$$f(x) = \begin{cases} x^3 - 7x, & x \leq -3 \\ 8, & -3 < x \leq 3 \\ 77, & x > 3 \end{cases}$$

$$a. f(-5) = (-5)^3 - 7(-5)$$

$$= -125 + 35$$

$$\boxed{f(-5) = -90}$$

$$\boxed{f(11) = 77}$$

$$c. f(0) = 8$$

$$d. f(3) = 8$$

These are super easy when the functions are constant! No work!

Graph the following piecewise functions.

3.

$$f(x) = \begin{cases} 2x + 3, & x \leq 0 \\ -\frac{1}{2}x - 1, & x > 0 \end{cases}$$



4.

$$f(x) = \begin{cases} -\frac{1}{3}x + 5, & x > 3 \\ 2, & x \leq 3 \end{cases}$$



5.

$$f(x) = \begin{cases} 4 - x, & x < 2 \\ 2x - 6, & x \geq 2 \end{cases}$$



6.

$$f(x) = \begin{cases} -3, & x \leq 0 \\ -1, & 0 < x \leq 2 \\ 1, & 2 < x \leq 4 \\ 3, & x \geq 4 \end{cases}$$



Common Core Lessons On Functions And Relations

Robert R. Redfield



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Resources in Education ,1986-10 *Communicative Syllabus Design and Methodology* Keith Johnson,1982 *The Massachusetts register* ,2010 *Senior Educational Personnel* ,1987 **The Importance of Activities Performed in Functions of the Farm Machinery Industry as a Basis for Training Programs** Arthur L. Berkey,1967 **Proceedings of the 1st-12th Annual Educational Conference. 1921-1932** ,1925 *Teaching and Learning in Schools of Nursing* Loretta Elizabeth Heidgerken,1965 *Electrical World* ,1917 **Learning Relations** Alexander M. Sidorkin,2002

Annotation New York Bern Berlin Bruxelles Frankfurt M Oxford Wien 2002 Counterpoints Studies in the Postmodern Theory of Education Vol 173 General Editors Joe L Kincheloe and Shirley R Steinberg *CENTO Workshop on Educational Responsibilities of Nurses and Midwives in Relation to Family Planning in Maternal and Child Health* ,1972 **Journal of Health, Physical Education, Recreation** ,1933 **Language and Language Teaching** ,1978 **Resources in Education** ,1993 **English Language Teaching Journal** ,1975 *Applied Principles of Educational Sociology* Harold R. Bottrell,1954 This book concerns itself with school and community relations with portions devoted to the behavior of children and of teachers but always in the community context The following general topics are treated educative processes in the community understanding the community understanding children and youth understanding educative agencies and resources utilizing community resources and experiences developing special competencies The book is not directed to the professional sociologist seeking an institutional analysis of the role of the school in American society but rather teachers and community workers dealing with practical problems in bringing the school and community into common focus in the learning process The many practical suggestions as to ways of implementing the community concept of education into the action arena make it a very useful addition to the rapidly growing literature in educational sociology **Process and Relation in Discourse and Language Learning** Winifred Crombie,1985 **Organizing Preservation Activities** Association of Research Libraries,1993 This resource guide considers issues in the staffing and organization of preservation activities It provides guidance in implementing a systematic preservation program and evaluates the structures of various types of preservation programs The following articles complement the discussion of program models and implementation 1 Preservation Program Models A Study Project and Report Jan Merrill Oldham Carolyn C Morrow and Mark Roosa 2 The Politics and Management of Preservation Planning Karl G Schmude 3 A Cost Model for Preservation The Columbia University Libraries Approach Carolyn Harris Carol Mandel and Robert Wolven 4 Staffing the Preservation Program Carolyn C Morrow 5 Staffing Preservation Related Activities in Libraries A Checklist Michele Cloonan 6 Preservation Librarians Association of Research Libraries 7 ARL Preservation Statistics 1990 91 Jutta Reed Scott and Nicola Daval 8 Preservation Committee Charge Dartmouth College 9 Preservation Committee Charge University of North Carolina at Chapel Hill 10 organization charts for eight major university libraries 11 NEH ARL Preservation Planning Program Final Report University of Colorado at Boulder 12 Preservation

Planning Project Study Team Final Report Duke University and 13 A Preservation Program for Oklahoma State University
Library Oklahoma State University An annotated list of selected reading presents 11 additional sources SLD
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