Piecewise and Step Functions

Objectives:

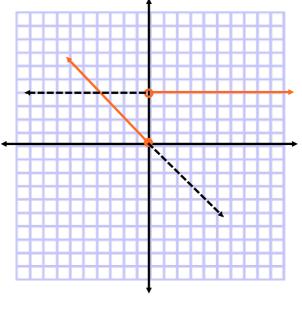
- 11) I can graph a piecewise function
- 12) I can write the equation of a piecewise function

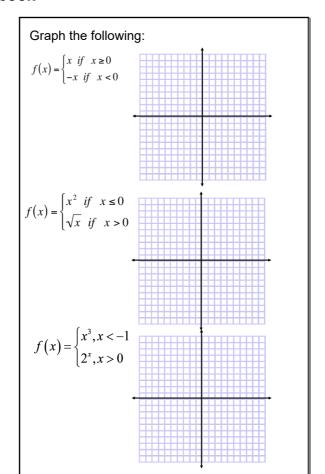
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A piecewise function is a function with a different equations defined over unique intervals of x.

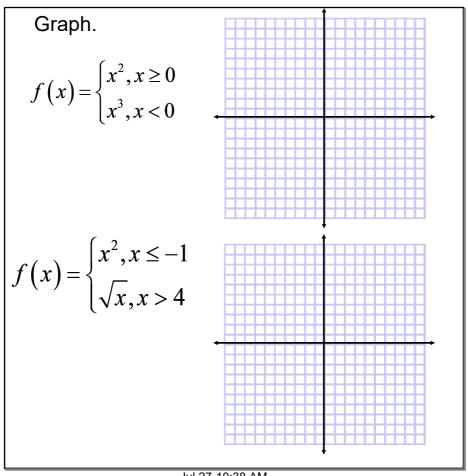
For example:

$$f(x) = \begin{cases} -x, x \le 0 \\ 4, x \ge 0 \end{cases}$$



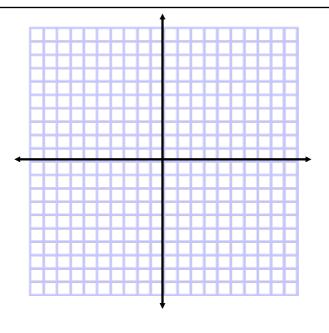


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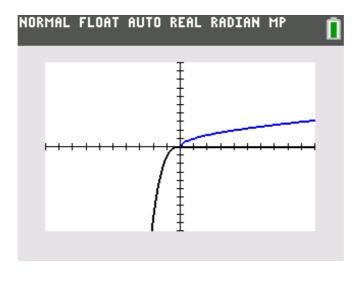
$$f(x) = \begin{cases} \sqrt{x}, & x > 1 \\ 2^x, & x \le 0 \end{cases}$$

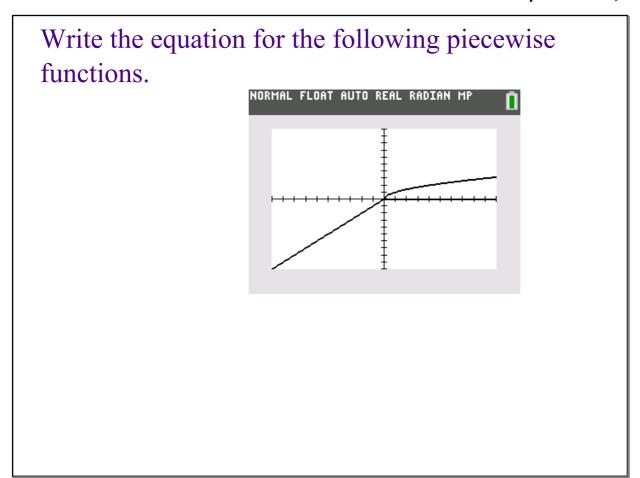


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Write the equation for the following piecewise







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