DIECENISE FUNCTIONS

essential question

How do I graph a piecewise function?

PieceWise_functions

<u>OSSENTIAL QUESTION</u> How do I graph a piecewise function?

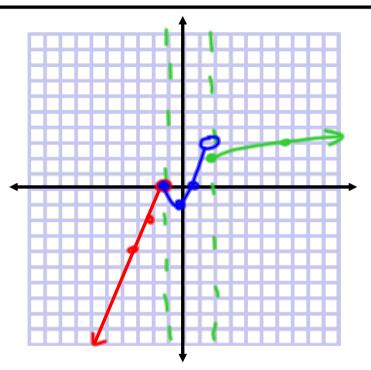
PIECE WISE FUNCTIONS

ex.

yopen circle

$$f(x) = \begin{cases} 2x+2 & x < -1 \\ x^2 - 1 & -1 \le x < 2 \\ \sqrt{x+2} & x \ge 2 \end{cases}$$



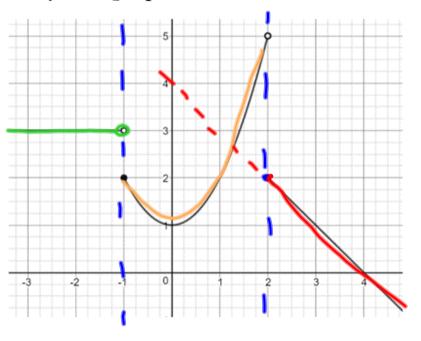


DIECELISELINGEIONS

OSSENTIAL QUESTION How do I graph a piecewise function?

Write the piecewise function defined by the graph.

$$f(x) = \frac{3}{x^{2}+1} \times x^{2} - 1 \le x^{2} \times x^{2} - x^{2} + 1 \times x^{2} = x^{2}$$



DieceNize TINC+iONS

<u>QSSENTIAL QUESTION</u> How do I graph a piecewise function?

3. If
$$f(x) = \begin{cases} 3x & x < -2 \\ x^3 & -2 \le x < 3 \end{cases}$$
 find $f(0) = 0^3 = 0$

$$f(3) = -3$$

$$f(7) = -3$$

