## DiecelwISE fIMCtiONS

## ESSENtial question How do I graph a piecewise function?

piece Wise functions

$$
\begin{aligned}
& \text { ex. } \\
& f(x)= \begin{cases}2 x+2 & x<-1 \\
\begin{array}{ll}
x^{2}-1 & -1 \leq x<2 \\
\sqrt{x+2} & x \geq 2
\end{array}, ~\end{cases}
\end{aligned}
$$




```
        piecel lise finctions
ESSENTIAL QUEStION How do I graph a piecewise function?
\(f(x)=y\)
3. If \(f(x)=\left\{\begin{array}{lll}3 x & x<-2 & f(-2)=(-2)^{3}= \\ x^{3} & -2 \leq x<3, \text { find } f(0)=0^{3}=0 \\ -3 & x \geq 3 & f(3)=-3 \\ f(7)=-3\end{array}\right.\)
```



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