## Steps for Evaluating：

## 1．Which function is it？

 Example：$f(x), g(x), h(x), f(x)$2．What domain does the $x$ fall into？

3．Plug in the number for $x$ ．

## ら台

 y－intercept．Is it an open dot or a closed dot？ If $<$ or $>$ open dot like this $\rightarrow$ O
If $\leq$ or $\geq$ closed dot like this $\rightarrow$
2．Use the slope to graph the line．

## DOMAIN

f $\leq$ or $\geq$ closed dot like this $\rightarrow 0$

Which side do I keep？

GREATER $=$ Right Less $=\underline{\text { Left．}}$ ．

Get the absolute value by itself Example：$|3 k|=21$

## STEP 2：RR WN RITE

Rewrite the absolute value equal to positive and negative．

$$
3 k=21 \text { or } 3 k=-21
$$

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Solve the variable．
You should have 2 answers．

$$
k=7 \text { or } k=-7
$$

Solve：
$-3|x-4|=18$

Graph：

$$
y=2|x-5|+2
$$

## SHIFTS

呂＂号 $y=|x-a| \rightarrow$ right $y=|x+a| \leqslant l e f t$ $y=|x|+a$ $\uparrow u p$ $y=|x|-a \quad \downarrow$ down㯺＂号够

$$
y=a|x|
$$

a＞ 1 skinnier
$a<1$ wider

