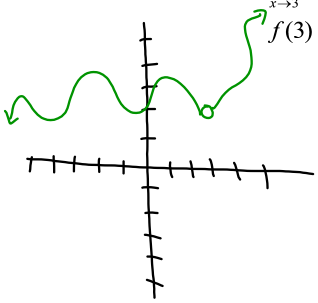
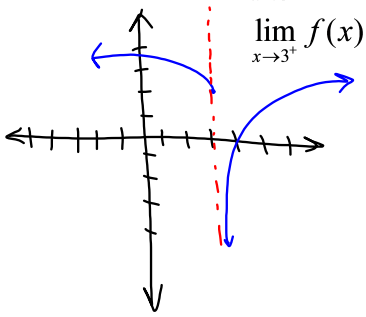
Grab a whiteboard, marker, and eraser and
Sketch a graph such that: $\lim_{x\to 3} f(x) = 2,$
$f(3) = dne$



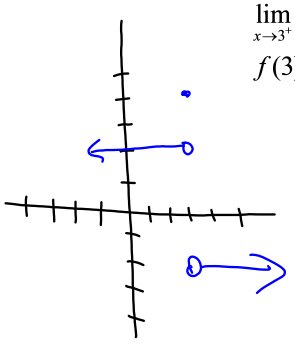
Mar 25-2:14 PM

Sketch a graph such that: $\lim_{x\to 3^-} f(x) = 2,$
$\lim_{x\to 3^+} f(x) = dne$



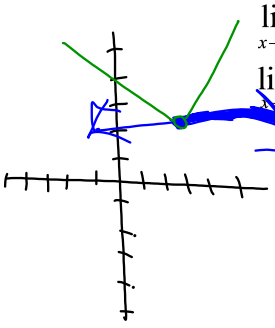
Mar 25-2:15 PM

Sketch a graph such that: $\lim_{x\to 3^-} f(x) = 2,$
$\lim_{x\to 3^+} f(x) = -2,$
$f(3) = 4$



Mar 25-2:15 PM

Sketch a graph such that: $\lim_{x\to 3^-} f(x) = 2,$
$\lim_{x\to 3^+} f(x) = 2,$
$\lim_{x\to 3} f(x) = 2$



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Graphing Piecewise Functions

$$f(x)=\begin{cases} x^2-6x+6, x\geq 1 \\ -4+4x, x<1 \end{cases}$$

X	Y
-2	-12
-1	-8
0	-4
1	0
1	1
2	-2
3	-3
4	-2

$\lim_{x\to 1^+} f(x) = 1$ $f(1)=1$

$\lim_{x\to 1^-} f(x) = 0$

$\lim_{x\to 1} f(x) = DNE$

Feb 24-4:44 PM

HOMEWORK

...evaluating limits graphically

pages 1-6 in packet

{packet due Thursday}

Feb 24-4:04 PM