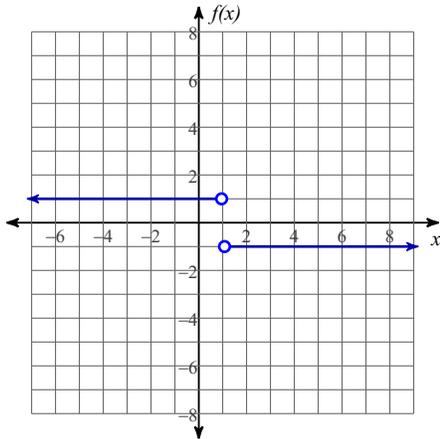


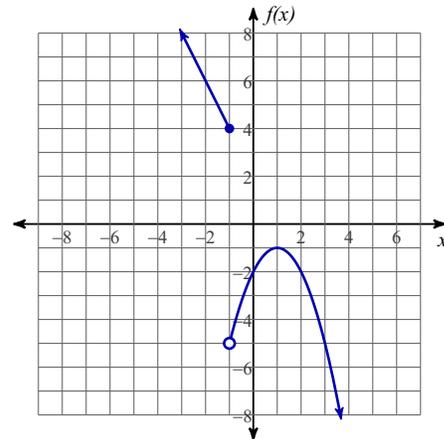
Limits - Hwk 1

Evaluate each limit.

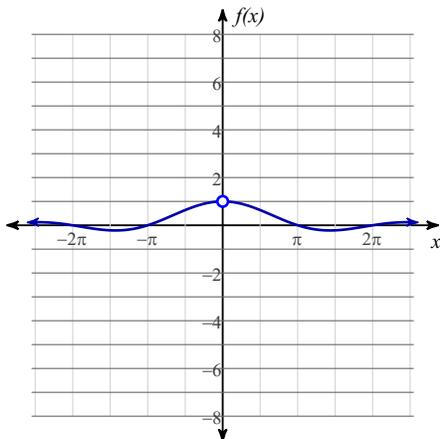
1) $\lim_{x \rightarrow 1} \frac{|-x + 1|}{-x + 1}$



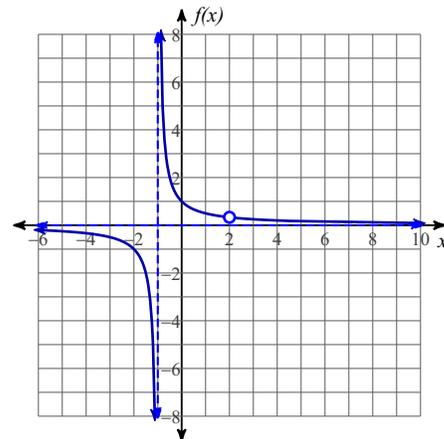
2) $\lim_{x \rightarrow -1} f(x), f(x) = \begin{cases} -2x + 2, & x \leq -1 \\ -x^2 + 2x - 2, & x > -1 \end{cases}$



3) $\lim_{x \rightarrow 0} \frac{\cos\left(\frac{3\pi}{2} + x\right)}{x}$

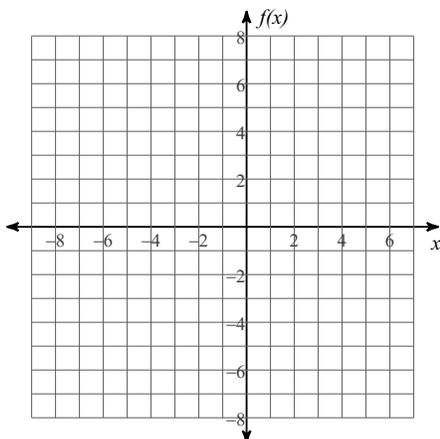


4) $\lim_{x \rightarrow 2} \frac{x - 2}{x^2 - x - 2}$

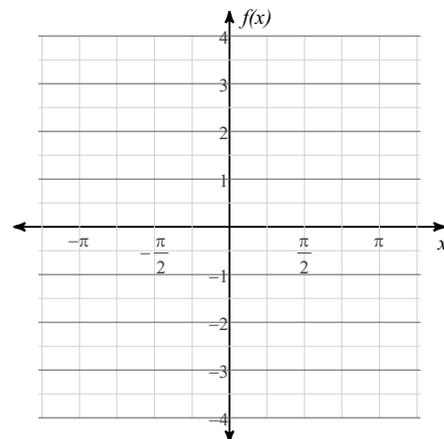


Evaluate each limit. Please graph the function.

5) $\lim_{x \rightarrow -\frac{3}{2}} (2x^2 - 4)$



6) $\lim_{x \rightarrow -\frac{\pi}{6}} 2\cos(2x)$



Evaluate each limit.

$$7) \lim_{x \rightarrow -\frac{3\pi}{4}} \cos(x)$$

$$8) \lim_{x \rightarrow -1} -2x$$