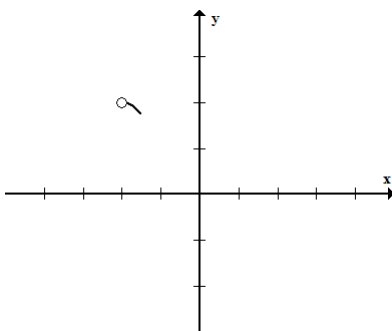**Sketch a graph using the following information about the limits**. Note there is not ONE correct graph. But your final answer should resemble mine in some way.
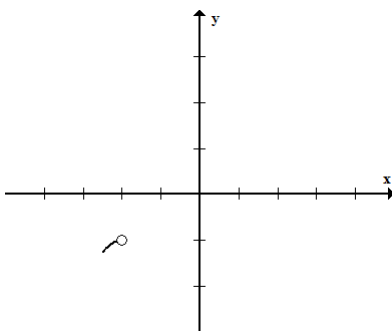
$$\lim_{x\to-2^+} f(x) = 2 \qquad\qquad \lim_{x\to 1} f(x) = \infty$$
$$\lim_{x\to-2^-} f(x) = -1 \qquad\qquad f(-2) = -1$$
$$\lim_{x\to 4} f(x) = 3 \qquad\qquad f(4) = 1$$

Start by drawing out what each limit represents.
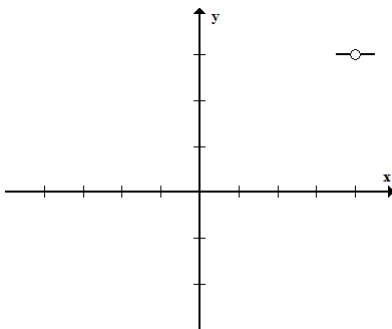
1. $\lim_{x\to-2^+} f(x) = 2$

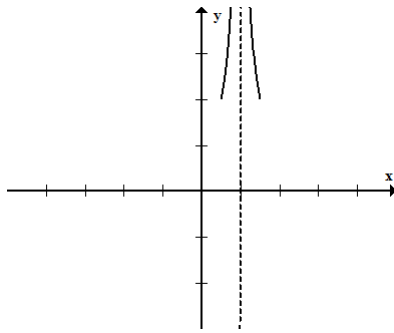2. $\lim_{x\to-2^-} f(x) = -1$
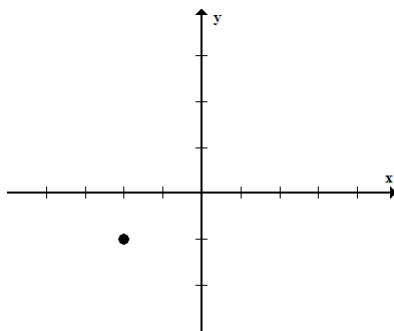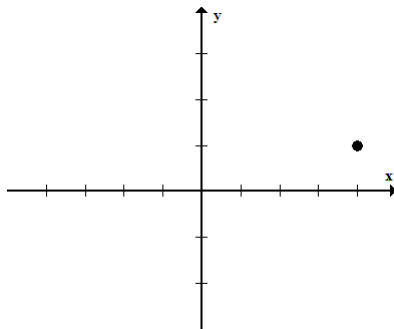

3. $\lim_{x\to 4} f(x) = 3$

4. $\lim\limits_{x \to 1} f(x) = \infty$
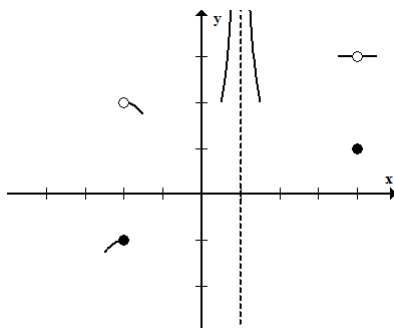
5. $f(-2) = -1$

6. $f(4) = 1$

7. Piece everything together by connecting the limits.

   Here's what it looks like before connecting everything together.

After connecting everything, (and double checking to make sure it satisfies the requirements), this is what you get