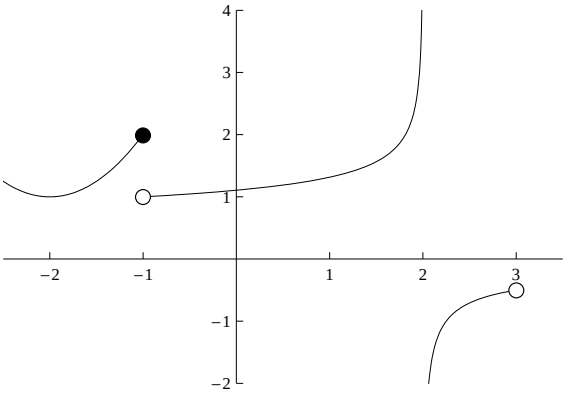
1. **(4 points)** For the plot of $h(x)$ shown below, indicate whether or not each of the following quantities can be evaluated. If they can be evaluated, compute their values. If they cannot be evaluated, explain why.



$\lim_{x\to -1^+} h(x)$

$\lim_{x\to 2^-} h(x)$

$h(-1)$

$\lim_{x\to -2} h(x)$

2. **(9 points)** Evaluate the following limits, or explicitly state that they do not exist and explain why they cannot be evaluated.

   (a) **(3 points)** $\lim_{s\to 2} \sqrt{2-s}$

   (b) **(3 points)** $\lim_{x\to 1^+} \frac{x^2-2x}{x^3+x^2+1}$

   (c) **(3 points)** $\lim_{u\to 3} \frac{u-3}{u^2-4u+3}$

3. **(3 points)** Write the formal definition of the statement "$\lim_{x\to a^+} f(x) = -\infty$".

4. **(4 points)** Using epsilon-delta methods, prove that $\lim_{x\to 4} -4x + 2 = -14$.

5. **(2 point bonus)** Show that the equation $x + 2 = 2x^6$ has at least two solutions.