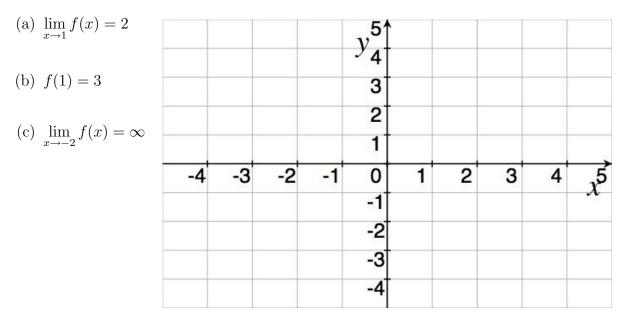
TMATH 124pm: Quiz 1

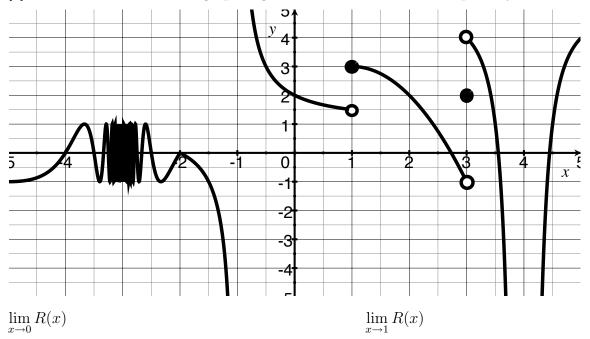
Show *all* your work (numerically, algebraically, or geometrically) for each and simplify. No credit is given without supporting work.

1. [3] (§2.2 #15) Sketch the graph of an example function f that satisfies the following conditions:



2. [2] (WebHW2 #9 & $\S2.2$ #19) Determine the following, if they exist:

$$\lim_{x \to 6} \frac{7 - x}{(x - 6)^2} \qquad \qquad \qquad \lim_{x \to 2^+} \frac{x \ln(x) - \ln(x)}{x^2 - 1}$$



3. [5] For the function R whose graph is given, state the value of each quantity, it it exists.

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

 $\lim_{x \to -3} R(x)$

 $\lim_{x\to 4^+} R(x)$