

Section 1.3 HW

Please give complete, well written solutions to the following exercises.

1. 22 on page 34.
2. In your own words, explain why

$$\lim_{x \rightarrow 0} H(x)$$

does not exist according to definition 1 on page 25.

3. Find two functions f and g so that neither function has a limit as $x \rightarrow a$, but

$$\lim_{x \rightarrow a} (f + g)$$

exists.