

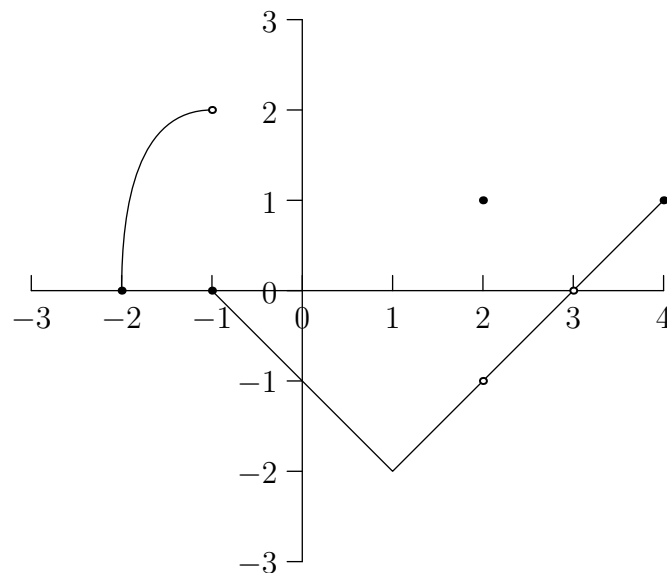
MTH 132.12 Quiz 1
Friday 21 January 2011

Name:

Show *all* your work. Points will be deducted for incomplete work. No calculators are allowed.

1. If $g(x) = \sqrt{x+1}$, find a $\delta > 0$ so that $0 < |x-3| < \delta$ guarantees $|g(x) - 2| < \frac{1}{5}$. You may leave your answer unsimplified.

2. For the function $h(x)$ graphed below, some of the statements below are true and some are false. Circle the true ones.



- (a) $\lim_{x \rightarrow -1^-} h(x) = 0$
(b) $\lim_{x \rightarrow 0} h(x) = -1$
(c) $h(2) = 1$
(d) $\lim_{x \rightarrow 2} h(x) = 1$
(e) $\lim_{x \rightarrow 3^+} h(x) = 0$