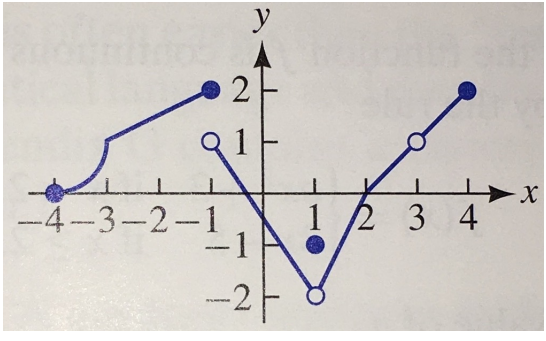
1. Use the graph of $y = f(x)$ to find the following:



(a) $\lim_{x\to 3} f(x)$

(b) $f(1)$

(c) $\lim_{x\to 1} f(x)$

(d) $\lim_{x\to 4^-} f(x)$

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

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

(g) $\lim_{x\to -1} f(x)$

(h) $f(-1)$

2. Find the following limits by either graphing or substituting nearby values

(a) $\lim_{x\to 1} \dfrac{x^2-1}{x-1}$

(b) $\lim_{h\to 0} \dfrac{(1+h)^2-1}{h}$

(c) $\lim_{h\to 0} \dfrac{\sin(h)}{h}$ where h is measured in radians

(d) $\lim_{h\to 0} \dfrac{\sin(h)}{h}$ where h is measured in degrees