

1. Answer the questions about the functions graphed below.

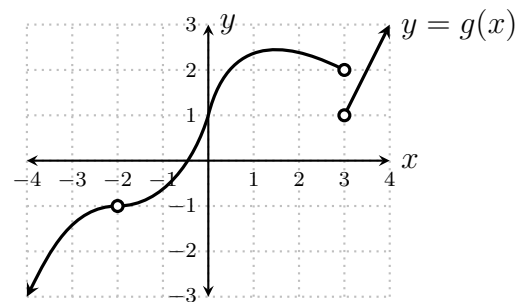
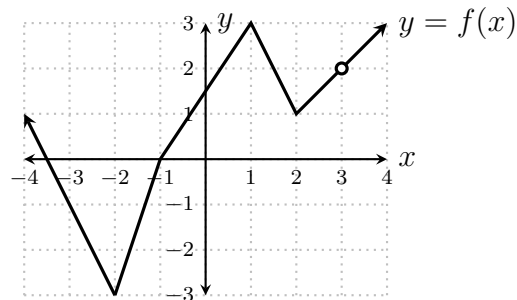
(a) $\lim_{x \rightarrow 3} f(x) =$

(b) $\lim_{x \rightarrow 3^+} g(x) =$

(c) $\lim_{x \rightarrow 3} g(x) =$

(d) $\lim_{x \rightarrow 0} (2f(x) + g(x)) =$

(e) $\lim_{x \rightarrow -2} \frac{3 + g(x)}{\sqrt{12 + f(x)}} =$



2. $\lim_{x \rightarrow 1} \frac{x^2 - 6x + 5}{x^2 - 3x - 10} =$

3. $\lim_{x \rightarrow 5} \frac{x^2 - 6x + 5}{x^2 - 3x - 10} =$

4. $\lim_{h \rightarrow 0} \frac{\frac{1}{6+h} - \frac{1}{6}}{h} =$

5. $\lim_{x \rightarrow \pi} \frac{x \cos(x) + x}{\cos(x) + 1} =$

6. $\lim_{x \rightarrow 0} \frac{\sin(x)}{x} =$